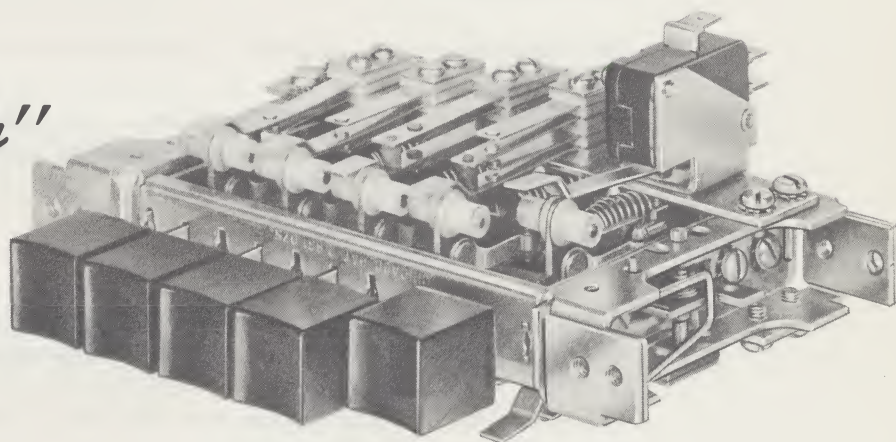


ENGINEERING*bulletin*File with Catalog S-306
March 23, 1964**NOW!!!***Switch 15 Amps**with the**"Multi-Switch"*

You can now combine low level circuit switching with power switching on the "Multi-Switch".

Switchcraft has designed a snap switch module, consisting of a snap action switch and bracket for mounting directly to the "Multi" and "Push-Push" switches. The module also includes all necessary hardware for quick, easy and convenient mounting.

Switchcraft's push-button switches can now be used as "ON-OFF" switches in test equipment, control panels, industrial equipment and many other applications where voltage and load requirements specify a rating of up to 15 amps, 125/250 V.A.C.

Two "Snap Switch Modules" are available: Part Nos. 73SA and 73SB. Both are rated at 15 AMP, 1/2 HP, 125/250 V.A.C., U.L. and CSA approved, and each provides a 1-C circuit (S.P.D.T.).

SNAP SWITCH MODULE, PART NO. 73SA:

Consists of a snap action switch with quick-connect terminals and specially adjusted actuating lever mounted on a Switchcraft bracket.

This module can be mounted on the following push-button switches:

“Multi-Switches” – Series 7000, 8000; Series 17000, 18000;
Series 21000, 22000.

“Push-Push Switches” – Series 5000.

The 73SA Module is supplied with two No. 3-48 screws for mounting to “Multi-Switch” frames. Two modules can be mounted at each station of a Series 7000-8000 “Multi-Switch”. One module can be mounted at each station of a Series 17000, 18000, 21000 and 22000 “Multi-Switch”. The Modules mount on side opposite lighting stacks on all illuminated “Multi-Switches”.

Only one module can be mounted on the “Push-Push Switch”, Series 5000. Two hex nuts, in addition to the No. 3-48 screws, are furnished for fastening the 73SA to the “Push-Push Switch” frame. The module mounts on the top side of the switch. Leaf-type stack switches can not be mounted on the frame, top or bottom sides, if the module is used.

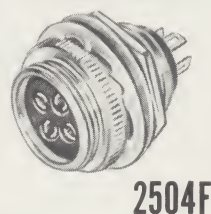
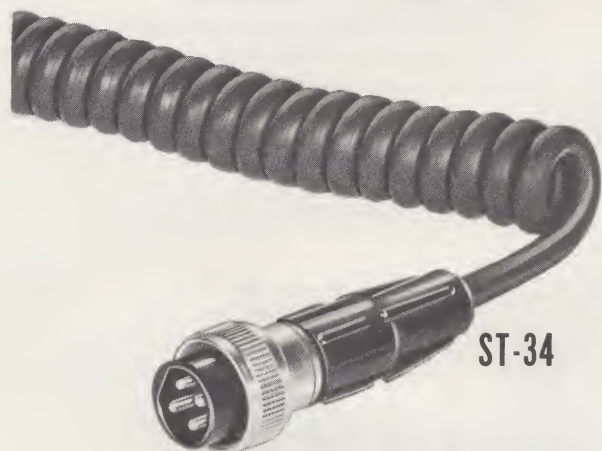
SNAP SWITCH MODULE, PART NO. 73SB:

Similar to Module No. 73SA, except switch actuating lever designed to operate on “Push-Push Switches”, Series 15000, illuminated push-button switch.

The module mounts on the bottom side of the switch frame (max. one per switch). Four 7/16” long screws are supplied to secure the module and the lighting stacks (which mount on the top side of the switch frame). Plus, four 3/4” long screws are provided for mounting up to two additional form C switch stacks with the lighting stacks on the top side of the switch.

INQUIRIES:

We invite your inquiries regarding these SNAP SWITCH MODULES. Other types of snap-action switches in various circuits, terminals, etc., are available on special order. Please specify the type of Switchcraft push-button switch mechanism desired (See Catalog S-306), number of stations, electrical rating required and circuits needed. Price and delivery will be promptly quoted to you.

ENGINEERING*bulletin*File with Catalog M-701
March 23, 1964**NEW***Communications Connector and Receptacle*

New, efficient, attractive, compact 4-pin connector and receptacle ---- ideal for use on microphones, transmitters, amplifiers, test instrumentation, computers, medical instruments, mobile communications equipment, control devices - and many other audio and instrument applications.

DESIGN FEATURES OF ST-34 MOLDED CONNECTOR

A new, small 4-pin molded connector assembly that minimizes noise, eliminates shorts and assures positive electrical connection. Accidental disconnections are eliminated by the positive screw-type lock ring. Incorrect insertions are impossible because the connector has a "D" shaped insert.

ST-34 connector mates with Part No. 2504F, 4-contact female receptacle, Accepts cables up to 7/32" O.D. Available on special order, in 2 and 3 pin types.

SPECIAL ASSEMBLIES

The ST-34 connector can be molded to cables to meet the requirements of original equipment manufacturers. Available with terminations of another connector, plug, stripped and tinned ends, etc. See Switchcraft engineering Catalog M-701 for specifications on standard cable.

DESIGN FEATURES OF 2504F RECEPTACLE

An unusually compact chassis or panel receptacle. Mates with ST-34 connector.

Mounts on panels up to $\frac{7}{32}$ " thick, in a $\frac{11}{16}$ " round hole or a $\frac{11}{16}$ " x $\frac{21}{32}$ " "D" shaped hole to prevent receptacle from turning.

The 2504F, 4 contact female receptacle is available, on special order, in 2 or 3 contact types.

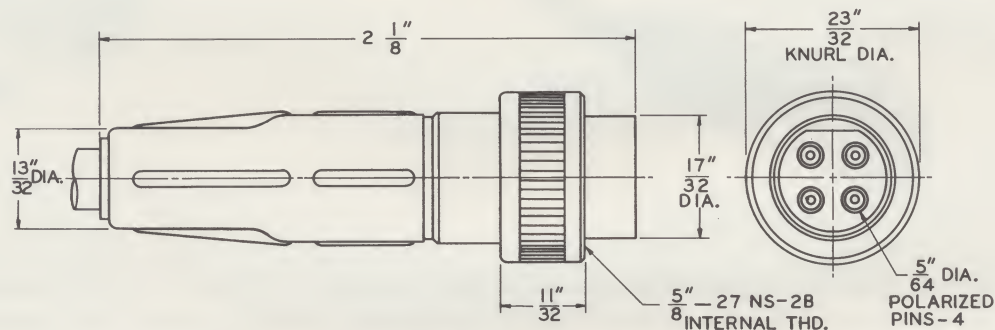
MATERIAL SPECIFICATIONS

ST-34 Connector

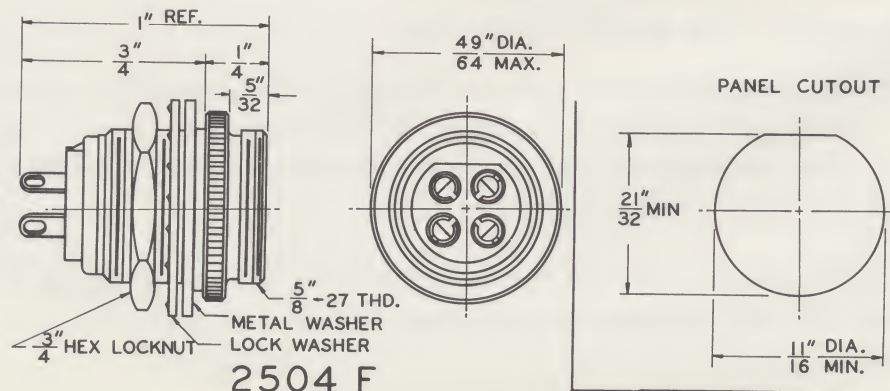
HOUSING and COUPLING RING - H. H. Brass, Nickel plated.
HANDLE - Flexible Plastic.
PIN CONTACTS - Brass, silver plated.
INSULATION - Molded thermo-plastic.
SHIELD - Nickel plated brass.
STANDARD COLORS - Grey, White, Black, Brown. Other colors to match your equipment or cable, available on special order.

2504F Receptacle

SHELL - Machined brass, Nickel plated.
INSERT DIELECTRIC - Molded thermo-plastic.
SOCKET CONTACTS - Phosphor bronze, silver plated.
MOUNTING HARDWARE - Supplied with lockwasher, flat washer and hexnut. Steel, cadmium plated.



ST-34



2504 F

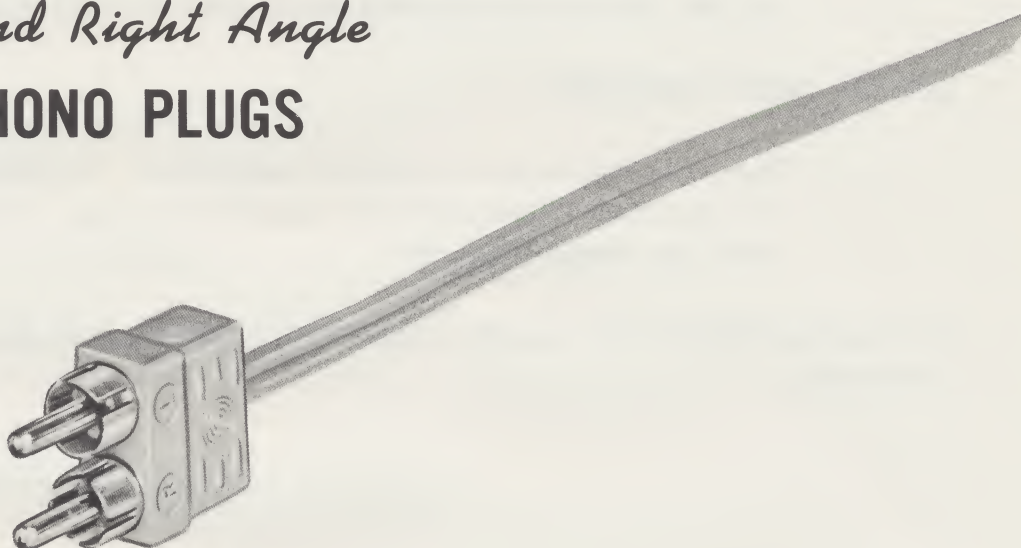
ENGINEERING

bulletin

File with Catalog M-701

March 23, 1964

Molded Cable Assemblies
with **NEW**
Straight and Right Angle
TWIN PHONO PLUGS



DESIGN FEATURES

A unique molded housing design that provides two phono plugs in one assembly mounted on 7/16" centers. The rugged, attractive molded housing provides protection against moisture and eliminates possible shorts.

Ideal for use in all stereo applications. The phono plug housing is coded by three dots to identify a certain Stereo channel and "R" for right channel and "L" for left channel.

Type ST-36: A straight twin phono plug housing. Accepts cables up to .321" x .187" tandem or .187" O.D.

Type RA-36: A right angle twin phono plug housing. Similar to ST-36, except cable comes out of molded body at a right angle to phono plugs. Ideally suited for applications where phono jacks are located at the rear of equipment or where space is limited.

MATERIAL SPECIFICATIONS

Phono Plugs

TIP - Brass, nickel plated

SLEEVE CONNECTION - Cadmium plated, brass.

INSULATION - Paper base phenolic

MOLDED HOUSING - Plastic. Standard colors; Gray, White, Black and Brown.
Other colors to match your cable or equipment, available
on special order.

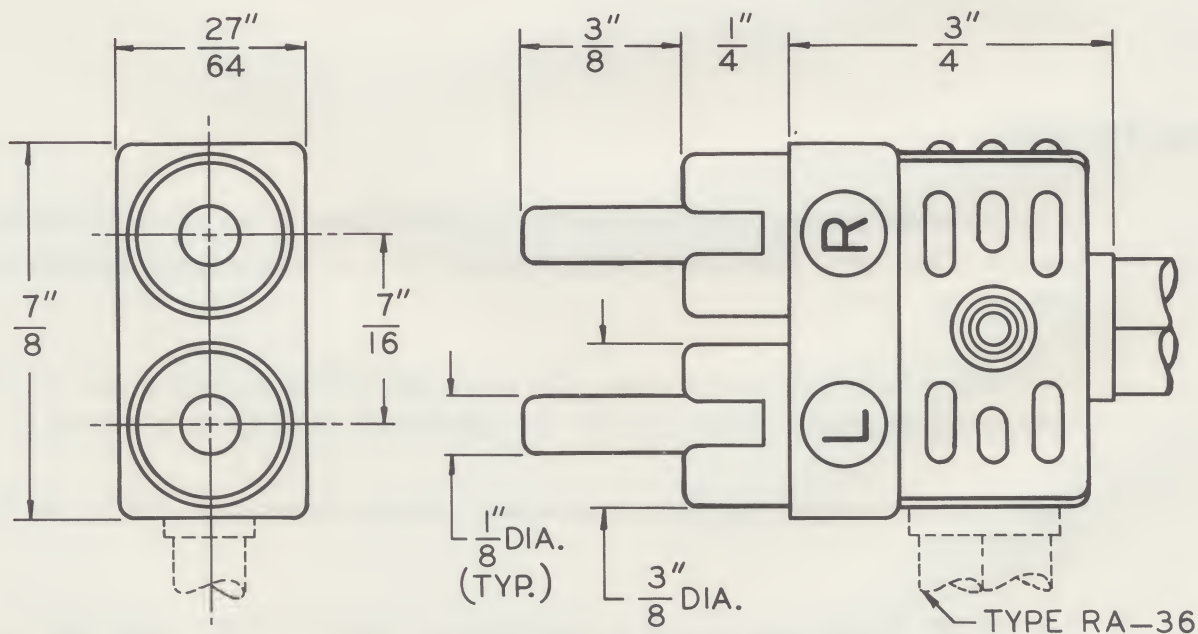
CABLE SPECIFICATIONS

Standard Shielded Cable: Type W-1072, a grey colored plastic jacket over two individually shielded #26 Ga. parallel conductors. Average capacity 30 mmfd. per foot. Recommended for stereo applications.

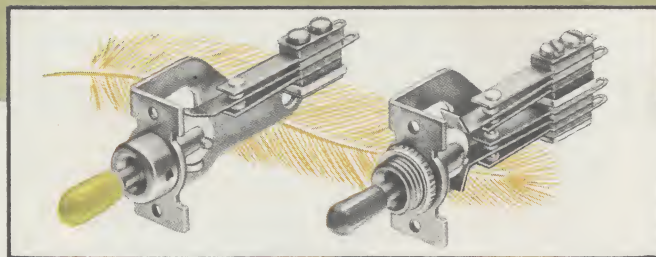
SPECIAL CABLE ASSEMBLIES

Built to the requirements of equipment manufacturers. Available with terminations of another TWIN PHONO PLUG, two separate phono plugs, stripped and tinned ends, spade lugs, alligator clips, etc.

See Switchcraft Molded Cable Assembly Catalog M-701 for specifications on cables and other terminations.



TYPE ST-36



"FEATHER-LEVER SWITCHES" SERIES 29000, 31000

TWO POSITION TYPE						
CONTACT ASSEMBLY	DIM. "X" MAX.	DIM. "Y" MAX.	NON-LOCKING*			
			PART NO.	U.S.A. LIST PRICE	PART NO.	U.S.A. LIST PRICE
	3/8"	—	29201	\$1.95	31201	\$2.10
	3/8"	—	29203	2.25	31203	2.40
	9/16"	—	29204	2.50	31204	2.65
	19/32"	—	29206	2.75	31206	2.75

THREE POSITION TYPE						
	3/8"	13/32"	29304	2.60	31304	2.75
	3/8"	13/32"	29306	2.90	31306	3.10
	3/8"	13/32"	†29307	2.95	†31307	3.10
	19/32"	5/8"	29312	3.75	31312	4.00

† INTER-COMM. SWITCHES

	3/8"	11/32"	29303T	2.50	31303T	2.65
	3/8"	13/32"	29307T	2.95	31307T	3.10

Standard Package—5

See next column for Push-on Knob part numbers

*Add Suffix "L" to part number for LOCKING TYPE.

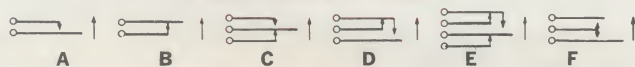
†Inter-communications "Talk-Listen" Switches, lever locks on one side of neutral and operates non-locking on the other side.

‡Center position open (OFF).

Listed in the table below are standard circuits in both two and three position actuators. For applications requiring special circuit arrangements, refer to the BASIC CONTACT FORMS. Specify the circuits needed by referring to the letter identification and the respective location on the frame.

MOUNTING—Series 29000 and 31000 "Feather-Lever Switches" mount on 1/32" centers, in a 9/16" dia. hole, in panels up to 1/8" thick. Series 29000 requires only a single hole for mounting. An attractive nickel plated knurled locknut is furnished with the switch. Series 31000 mounts with two No. 2-56 machine screws (not furnished with switch). See drawing for mounting dimensions.

BASIC CONTACT FORMS



SPECIFICATIONS

FRAME: Steel, iridescent iridite over cadmium plating.

BUSHING AND SHAFT: Brass, nickel plated.

SPRINGS: Spring tempered nickel silver.

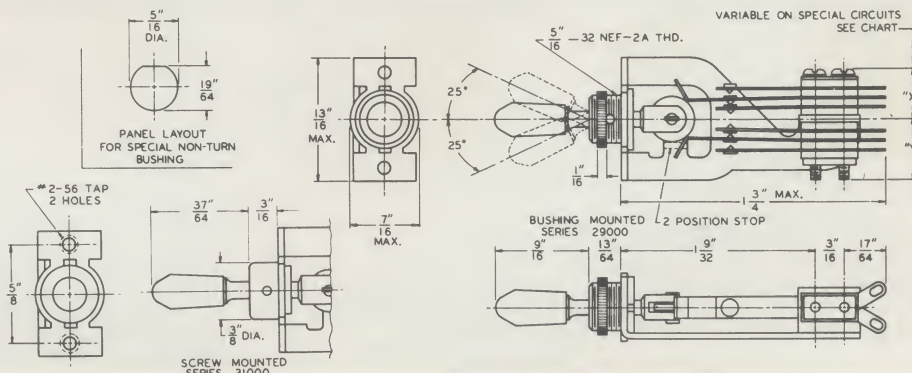
CONTACTS: Fine silver, standard. Welded cross bar palladium on special order.

INSULATION: Paper base phenolic spacers with plastic tubing through the stack. Lifters of machined fiber.

ACTUATED ROLLER: Nylon.

KNOBS: Resilient plastic.

MOUNTING HARDWARE: Series 29000, supplied with one knurled nickel plated brass locknut (T-2160).



SWITCHCRAFT, INC.

GENERAL OFFICES AND PLANT
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Area Code: 312 Tel.: 774-1515 TWX: 312 265-1314
Canadian Rep.: Atlas Radio Corp., Ltd., 50 Wingold Avenue
Toronto, Ontario, Canada

FOR
DETAILS
CONTACT

Catalog No. S-309 LEVER TYPE SWITCHES

"FEATHER LEVER SWITCH," Series 29000, 31000 Page 1
"LEVER-LITE SWITCH," Series 27000 Pages 2, 3
"LEV-R SWITCH," Series 28000 Page 4

Available at all leading Electronics and Radio Parts Distributors

"FEATHER LEVER SWITCHES"—SERIES 29000

New Switchcraft miniature lever switches cut your panel space and depth behind panel requirements at least 25%.

You can get the exact "Feather-Lever Switches" your equipment requires. A wide variety of circuits are available in bushing or screw mounted types, locking and non-locking actions, two or three positions—plus Knobs in 10 brilliant colors.

DESIGN FEATURES

SMALL SIZE, LIGHT WEIGHT of switch means space saving, more flexibility in mounting and simplified installation.

MOLDED NYLON ROLLER designed to assure smooth, easy lever operation over entire life of the switch.

RUGGED FRAME withstands rough usage, shock and vibration.

PUSH-ON COLOR KNOBS are available in 10 colors for almost unlimited variety of color combinations and coding.

BALANCED LEVER design increases life of switch and leaf springs.

FAN LUGS reduce wiring time and installation costs.

MODEL FLEXIBILITY—The "Feather-Lever Switch" is available in 2 and 3 position models, locking and non-locking types, bushing (Series 29000) or screw (Series 31000) mounting. It is an ideal Inter-Communication "Talk-Listen" switch; for such applications, we offer two additional circuits with the special feature where the lever locks on one side of neutral and operates non-locking on the other side. See Chart for Part Numbers. Series 29000, is also available, on special order, with a non-turn "D-shaped bushing." See drawing below. Add Prefix "R" to part number when ordering this special feature.

OPERATING FEATURES—The "Feather-Lever Switch" utilizes Switchcraft's new "TINI-STACK" switch stack. This miniature switch stack is made up of special nickel silver springs with fine silver contacts, rated at 2 amperes, 200 watts, max., A.C., non-inductive load. Fine silver contacts are furnished as standard, palladium contacts for low current, low voltage circuits are available on special order.

PUSH-ON COLOR KNOBS

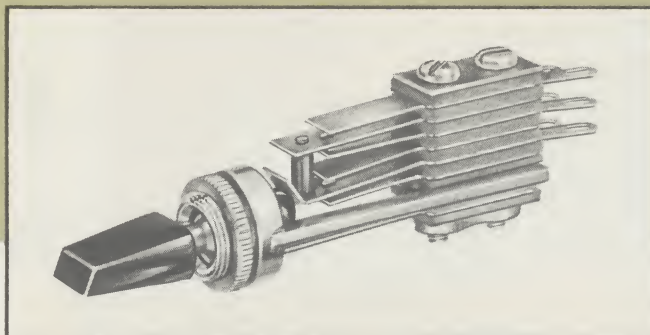
An almost unlimited variety of color combinations and coding is at your finger-tips with Switchcraft's new, pliable, "Push-On Color Knobs." These molded plastic knobs come in 10 sparkling colors. A color knob can be changed quickly and easily—simply pull-off present knob and push-on a new one. For permanence, a small amount of plastic cement will adhere knob to lever. The brass lever of the switch has been so styled and finished (in bright nickel plate), that it can be used as the actuating knob, if desired.

A black plastic push-on knob is furnished with each "Feather-Lever Switch," unless otherwise specified. Additional knobs, in various colors and color combinations, 10 per package, can be ordered as follows:

Part No. K-108—Plastic Knobs, one of each color: Red, Black, Green, Blue, White, Brown, Orange, Yellow, Ivory, Gray; Part No. K-109—Red; Part No. K-110—Black; Part No. K-111—Green; Part No. K-112—Blue; Part No. K-113—White; Part No. K-114—Brown; Part No. K-115—Orange; Part No. K-116—Yellow; Part No. K-117—Ivory; Part No. K-118—Gray.
U.S.A. LIST PRICE—Package of 10—\$0.75

"LEV-R SWITCHES"

Series 28000



Here is a compact, versatile and low-cost switch that was originally designed to meet the critical operational specifications of an electronic systems manufacturer. This carefully engineered switch is now available to industry for all electromechanical switching purposes, and offers these many advantages:

1. Molded nylon roller designed to assure smooth, easy lever operation over entire life of the switch—also greatly increases the life of the switch.
2. New, small Knob molded directly to the lever eliminating any possibility of loose or lost knobs.
3. The contoured top and bottom design of the Knob with its tapered sides will enhance the appearance of even the most modern control panel.
4. Each switch is furnished with a non-turn ring which slips over slotted bushing to prevent switch from turning in mounting hole. (See drawing below.)
5. This small lever switch requires less than half the space usually needed for a switch providing the same multiple circuitry.
6. Fine silver contacts, rated at 3 amperes, 300 watts, max., non-inductive load, are furnished as standard. Also available on special order, larger silver contacts for higher currents, and Palladium contacts for low current—low voltage circuits.
7. Special nickel-silver springs are assembled into a conventional stack assembly, insulated from each other by phenolic spacers with plastic tubing press fit through the stack, thereby insuring correct alignment of the contacts and providing high insulation resistance.
8. Long springs without any "form" at point of flexing insures long spring life.

"LEV-R SWITCHES," Series 28000, mount on $\frac{5}{8}$ " centers, in panels up to $\frac{3}{4}$ " thick. Requires only one $\frac{1}{8}$ " dia. mounting hole for bushing and one $\frac{1}{8}$ " dia. hole for non-turn device; depth behind panel only $\frac{1}{4}$ ".

Listed in the Part No. chart are standard circuits in both two and three-position actuators, either locking or non-locking types. For easy identification of special circuits refer to Basic Contact Form and specify by the respective letter identification.

The "LEV-R SWITCH" is an ideal Inter-Communication "Talk-Listen" switch; for such applications we offer, on special order only, two additional circuits with the special feature where the lever locks on one side of neutral, and operates non-locking on the other side.

"LEV-R SWITCHES"—SERIES 28000

TWO POSITION TYPE

PART NO. LOCKING	PART NO. NON-LOCKING	U.S.A. LIST PRICE	DIM. "X" MAX.	SCHEMATIC CIRCUIT
28201L	28201	\$2.70	$\frac{21}{32}$ "	
28203L	28203	3.00	$\frac{23}{32}$ "	
28204L	28204	3.25	$\frac{27}{32}$ "	
28206L	28206	4.50	$\frac{31}{32}$ "	

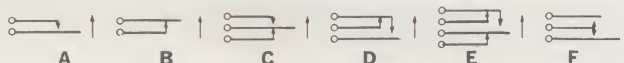
THREE POSITION TYPE

28304L	28304	3.35	$\frac{25}{32}$ "	
28306L	28306	3.65	$\frac{27}{32}$ "	
†28307L	28307	3.70	$\frac{27}{32}$ "	
28312L	28312	4.50	1 $\frac{3}{8}$ "	

Standard Package—5

† Center position open (OFF).

BASIC CONTACT FORMS



SPECIFICATIONS

FRAME: Half Hard Brass, Bright Nickel Plated.

BUSHING AND SHAFT: Machined from Brass, Bright Nickel Plated.

SPRINGS: Spring tempered Nickel Silver.

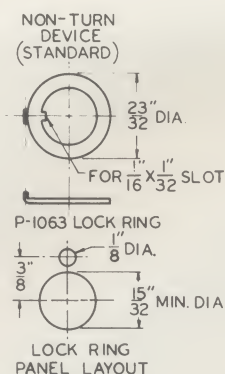
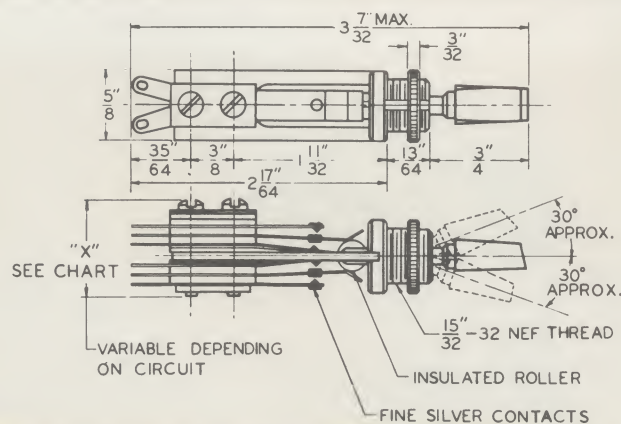
CONTACTS: Fine Silver, standard. Palladium on special order, in production quantities.

INSULATION: Paper Base Phenolic spacers with plastic tubing through the stack. Lifters of punched phenolic or fibre.

ACTUATOR ROLLER: Nylon.

KNOB: Black plastic molded to actuator shaft. Other colors on special order.

MOUNTING HARDWARE: Supplied with one knurled nickel plated brass locknut (T-1071-1); a hex locknut (P-1053-1) available special order. See Catalog H-601 for description.



SWITCHCRAFT[®]

INC.

We reserve the right to change the prices, specifications and/or part numbers contained herein when circumstances make it necessary.

GENERAL OFFICES AND PLANT

5555 N. ELSTON AVENUE

CHICAGO, ILLINOIS 60630, U.S.A.

Area Code: 312 • TEL: 774-1515 • TWX: 312-265-1314

SWITCHCRAFT
INC.

SHORT FORM CATALOG NO.

67

**ELECTRONIC
COMPONENTS**



DISTRIBUTED BY

About This Catalog...

The information given is, of necessity, condensed. The electronic components illustrated on the following pages are those which are stocked by Switchcraft's nationwide network of Authorized Industrial Distributors.

See or call your local Switchcraft Authorized Industrial Distributor now for off-the-shelf delivery of Switchcraft plugs, jacks, switches,

connectors, adapters and audio accessories—at factory prices.

In addition, if you wish detailed product specifications, drawings or other technical assistance, simply fill out the attached pre-paid postal card and mail.

Prices shown in this short form catalog are intended to serve as a guide. Prices vary depending upon the quantity purchased.

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Switchcraft Corp.

Phone Jacks



***THIS IS A
SWITCHCRAFT
SHORT FORM
CATALOG...***

The information given is condensed.
For complete Engineering
Specifications regarding our
products just fill out the attached
postal card (between pages 24 and 25)
and mail.

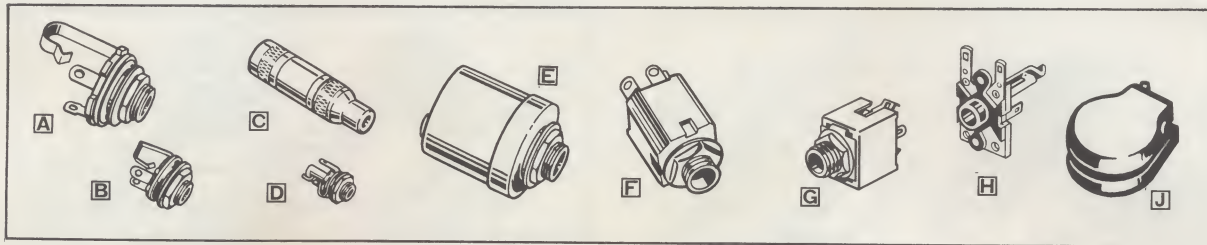
About This Catalog...

Switchcraft electronic components are available for immediate delivery from Switchcraft Authorized Distributors. A list of these distributors can be obtained by writing:

SWITCHCRAFT, Inc.

5555 N. Elston Avenue
Chicago, Illinois 60630

Attn.: Distributor Sales



"LITTEL-JAX" PHONE JACKS

A Quality phone jacks that mate with standard $\frac{1}{4}$ " phone plugs. Notched insulating washers mechanically interlock springs and solder lugs. "V" bend in tip spring firmly "holds" mating plug. Minimum space requirements. Economical. Mount in single $\frac{3}{8}$ " hole, panels up to $\frac{1}{2}$ " thick, except L-11 and L-12A in panels up to $\frac{1}{4}$ " thick.

Nos. C-11 and C-12A mate with No. 440 (PJ-055B) Plug; C-12B, S-12B and S-13B mate with No. 480 (JAN-PJ-068) or No. 484 (W.E. No. 309) Plug. Nos. C-11 and C-12B have locating pins (non-turn devices). No. S-11 similar to No. 11 except .210" I.D. sleeve. C-11, C-12B and C-12A per JAN-J-641. All others mate with standard $\frac{1}{4}$ " dia. plugs.

No. 14B Stereo Littell-Jax, switches-out speakers when connecting stereo headphones. Dual, N.O. switch contacts, open both stereo circuits independently when a 3-conductor plug is inserted.

TWO-CONDUCTOR TYPES

Part No.	Schematic No.	Typical Mating Plug	Mil-Type	U.S.A. List Price
11	I	250	—	\$0.45
C-11	I	440	JJ-034	.65
L-11	I	250	—	.55
S-11	I	S-250	—	.50
12A	III	250	—	.50
C-12A	III	440	JJ-089	.80
L-12A	III	250	—	.60
13	V	250	—	1.00
13A	VI	250	—	.90
13E	IX	250	—	1.00

THREE-CONDUCTOR TYPES

Part No.	Schematic No.	Typical Mating Plug	Mil-Type	U.S.A. List Price
12B	IV	267	—	.60
C-12B	IV	480	JJ-033	1.05
L-12B	IV	267	—	.75
S-12B	IV	480	—	.75
13B	VIII	267	—	.85
S-13B	VIII	480	—	1.05
14B	X	267	—	1.05

"TINI-JAX" MINIATURE PHONE JACKS

B Miniature 2-conductor Jacks, approximately $\frac{1}{2}$ the size of the "Littell-Jax"; otherwise similar in construction. Mount in $\frac{1}{4}$ " dia. hole; panel up to $\frac{1}{8}$ " thick. No. 43A has a unique spring design that requires a pear shaped tip, such as Switchcraft "Tini-Plug" No. 750.

Part No.	Schematic No.	Typical Mating Plug	Conductors	U.S.A. List Price
41	I	750	2	\$0.45
42A	III	750	2	.50
43A	VI	750	2	.80

"TINI-EXTENSION JAX"

C An extension or cable jack to mate with "Tini-Plug". Two-conductor. Metal housing for ruggedness and electrical shielding. Solder lug terminals.

Switchcraft Part No. 125 U.S.A. List Price \$1.35

"MICRO-JAX" SUB-MINIATURE PHONE JACKS

D Precision manufactured jack for miniaturized applications. Two-conductor, single closed circuit. See Schematic Circuit III. Silver plating on special tempered nickel silver springs. Internally keyed nylon insulation interlocks springs and solder lugs to eliminate shorts. Fits .190" dia. hole in panels to $\frac{3}{8}$ " thick. Only $\frac{1}{25}$ th the size of standard phone jacks. Mates with "Micro-Plug", Series 850, 880.

Switchcraft Part No. TR-2A U.S.A. List Price \$0.50

"SHIELDED JAX"

E A unique modification of the "Littell-Jax". The shield is assembled into and made part of the jack. Ideal for high impedance circuits.

Part No.	Schematic No.	Typical Mating Plug	Conductors	U.S.A. List Price
CN-11	I	250	2	\$0.90
CN-12A	III	250	2	.95
CN-12B	IV	267	3	1.05
CN-13B	VIII	267	3	1.30

"HI-D JAX" PHONE JACKS

F New smaller, more compact phone jacks, mate with std. $\frac{1}{4}$ " phone plugs. Molded box body protects integral silver-plated, nickel silver springs. Low contact resistance and electrical leakage with little capacity between the springs. Mount on $\frac{3}{8}$ " centers in single $\frac{3}{8}$ " hole in panels up to $\frac{1}{2}$ " thick, depth behind panel $1\frac{1}{2}$ ". All part Nos. with "L" prefix mount in panels up to $\frac{1}{4}$ " thick; part Nos. with "N" prefix feature a threaded nylon bushing to provide complete insulation of jack sleeve from mtg. panel. Stereo "HI-D Jax", Nos. 114B, L-114B, N-114B, switches out speakers when connecting stereo headphones. Dual N.O. switch contacts open both stereo circuits independently when a 3 cond. plug is inserted.

TWO CONDUCTOR TYPES

Part No.	Schematic	Typical Mating Plug	U.S.A. List Price
111	I	250	\$0.45
L-111	I	250	.60
N-111	I	250	.60
112A	III	250	.50
L-112A	III	250	.65
N-112A	III	250	.65
113	V	250	1.00
113D	VI	250	1.00
113E	IX	250	1.00

THREE CONDUCTOR TYPES

Part No.	Schematic	Typical Mating Plug	U.S.A. List Price
112B	IV	267	.55
L-112B	IV	267	.70
N-112B	IV	267	.70
113B	VIII	267	.75
L-113B	VIII	267	.80
N-113B	VIII	267	.80
113F	VII	267	.75
114B	X	267	.85
L-114B	X	267	.85
N-114B	X	267	.95

"TINI-D JAX" SUBMINIATURE PHONE JACKS

G New, small completely enclosed, molded phone jack. Mate with Switchcraft "Tini-Plug", No. 750 etc. Phenolic housing protects the bifurcated beryllium copper springs from being bent during mounting. No. 142A has threaded bushing for conventional mtg.; No. PC-142A, with plain bushing. Both have tip spring terminals that "snap-in" P.C. boards. Mount on $\frac{3}{8}$ " centers, in $\frac{1}{4}$ " dia. hole in panels up to $\frac{1}{8}$ " thick. Depth behind panel $\frac{1}{16}$ ".

Part No.	Conductors	Schematic	Typical Mating Plug	U.S.A. List Price
142A	2	III	750	\$0.50
PC-142A	2	III	750	.55

"R-JAX" ECONOMY PHONE JACKS

H Radically new jack design. Simple mounting needs only two (2) $\frac{3}{16}$ " dia. rivets to fasten securely to mounting panel. Accept standard $\frac{1}{4}$ " dia. phone plugs.

Part No.	Schematic No.	Typical Mating Plug	Conductors	U.S.A. List Price
1	I	250	2	\$0.40
2A	II	250	2	.45
2B	IV	267	3	.50
3A	VI	250	2	.70
3B	VIII	267	3	.60
3E	IX	250	2	.80
3F	VII	267	3	.60
4B	X	267	3	.70

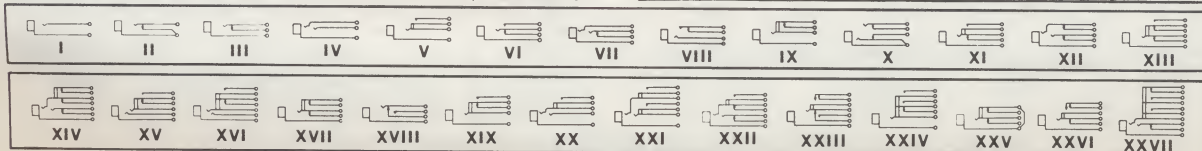
JACK COVERS

J Handy, rugged, spring-load phone jack covers. Covers jack openings when phone plug is removed. Protects against dust and moisture.

Series 500—Use with standard $\frac{3}{8}$ "-32 threaded bushing type phone jacks.

Series 600—Use with certain type tip jacks with $\frac{1}{4}$ " mounting; height of tip jack head $\frac{1}{8}$ " to $\frac{3}{16}$ ". Also used as covers for "Tini-Jax".

Part No.	Color	U.S.A. List Price	Part No.	Color	U.S.A. List Price
510	Olive Drab	\$1.15	610	Olive Drab	\$1.00
512	Bright Nickel	1.15	612	Bright Nickel	.85
515	Black	1.15	615	Black	1.00
520	Navy Gray	1.15	620	Navy Gray	1.00



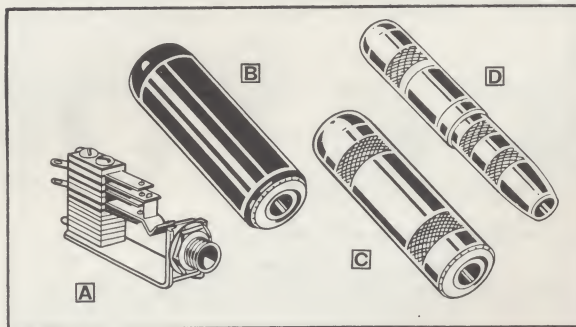
The above are strictly electrical schematics and do not necessarily indicate relative solder lug positions.

FOR DETAILED SPECIFICATIONS ON THE ABOVE SWITCHCRAFT PRODUCTS CIRCLE

CATALOG NO. J-101, 139, 148, 154 ON THE ATTACHED POSTAL CARD.

Phone Jacks

SWITCHCRAFT
INC.



"LF-JAX" LONG FRAME JACKS

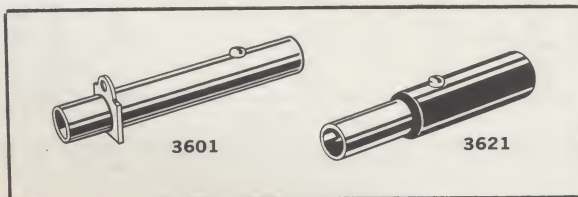
A Quality long frame phone jacks with a ground lug that is an integral part of the frame. Fine silver contacts rated at 3 amp., 300 watts, A.C., non-inductive load. Frame also available with a non-turn device, prefix Part No. with letter "R". Standard types mount in single $\frac{3}{16}$ " dia. hole in panels up to $\frac{3}{16}$ " thick. Depth behind panel, only $2\frac{3}{4}$ ".

Part No.	Schematic No.	Typical Mating Plug	Conductors	U.S.A. List Price
31	I	250	2	\$0.80
32	II	250	2	1.05
32A	III	250	2	1.05
32B	IV	267	3	1.05
33	V	250	2	1.15
33A	VI	250	2	1.15
33B	VII	267	3	1.15
33C	VIII	267	3	1.15
33E	IX	250	2	1.15
34	X	267	3	1.30
34A	XI	250	2	1.30
34B	XII	267	3	1.30
35	XIII	250	2	1.60
36	XIV	267	3	1.85

"EXTENSION JAX" CABLE EXTENSION JACKS

Standard $\frac{1}{4}$ ", 2 and 3-conductor extension phone jacks with solder lugs or screw type terminals. Size $\frac{1}{16}$ " O.D., $2\frac{3}{4}$ " long; 121 and 131 $\frac{1}{2}$ " O.D., $2\frac{1}{2}$ " long. Black handles are durable plastic. Shielded handles are brass, bright nickel plated.

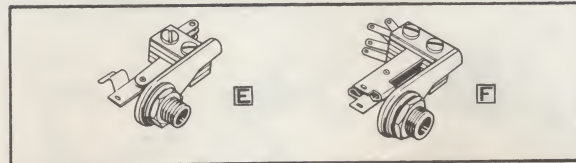
Part No.	Fig.	Cond.	Typical Mating Plug	Term.	Handle	U.S.A. List Price
80	B	2	250	Screw	Black	\$1.25
88	B	2	250	Solder	Black	1.10
120	C	2	270	Screw	Shielded	1.70
121	D	2	270	Solder	Shielded	1.80
126	C	2	R-280	Solder	Shielded	1.90
128	C	2	270	Solder	Shielded	1.55
S-128	C	2	S-250	Solder	Shielded	1.65
131	D	3	290	Solder	Shielded	2.25
830	B	3	267	Screw	Black	1.70
S-830	B	3	480	Screw	Black	2.25
838	B	3	267	Solder	Black	1.55
1230	C	3	290	Screw	Shielded	2.20
S-1230	C	3	480	Screw	Shielded	2.75
1238	C	3	290	Solder	Shielded	2.00



CV JAX AND PLUGS

High quality coaxial-video jacks and plugs designed for use in patching high frequency signals, microwave, telemetry and data transmitting applications. Jacks are made for 50 and 70 ohm circuits and use standard RG cables. No. 3601 accepts RG59/U; No. 3602 accepts RG62/U. Mate with Switchcraft CV Plugs. Mount in single $\frac{1}{16}$ " hole. Depth behind panel is $2\frac{3}{4}$ ". No. 3621, terminating plug with 75 ohm $\pm 1\%$ $\frac{1}{2}$ watt resistor; No. 3622, feed through plug; No. 3623 same as 3621 but with tip jack for incircuit testing.

JACKS		PLUGS	
Part No.	U.S.A. List Price	Part No.	U.S.A. List Price
3601	\$10.00	3621	\$ 4.75
3602	10.00	3622	4.25
		3623	5.75



"SF-JAX" SHORT FRAME PHONE JACKS

E Series 20—High quality commercial jacks, solder lugs parallel to mounting surface. Mount in $\frac{3}{16}$ " dia. holes, panels up to $\frac{3}{16}$ " thick.

F Series 50—Similar to Series 20, except solder lug location necessitates more depth but requires less panel space. Mount in panels up to $\frac{1}{4}$ " thick.

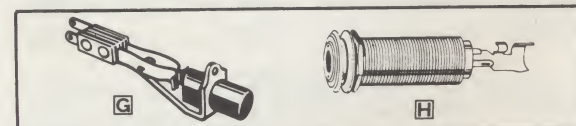
Series C-20 and C-50—MIL Types with Military insulation and finishes, otherwise similar to commercial Series 20 and 50; both will mount in panels up to $\frac{1}{4}$ " thick.

SERIES 20 and C-20

Part No.	Schematic No.	Typical Mating Plug	Mil-Type	U.S.A. List Price
21	I	250	—	\$0.70
22	II	250	—	.90
22A	III	250	—	.90
22B	IV	267	—	.90
23	V	250	—	1.05
C-23	V	440	JJ-099	1.50
23A	VI	250	—	1.05
C-23A	VI	440	JJ-098	1.50
23B	VII	267	—	1.05
23C	VIII	267	—	1.05
23E	IX	250	—	1.05
C-23E	IX	440	JJ-102	1.50
24	X	267	—	1.20
24A	XI	250	—	1.20
24B	XII	267	—	1.20
25	XIII	250	—	1.45
26	XIV	267	—	1.55

SERIES 50 and C-50

51	I	250	—	\$0.70
C-51	I	440	JJ-096	1.30
52	II	250	—	.90
52A	III	250	—	.90
C-52A	III	440	JJ-097	1.45
52B	IV	267	—	.90
C-52B	IV	482	JJ-103	1.45
53	V	250	—	1.05
53A	VI	250	—	1.05
C-53A	VI	440	JJ-092	1.70
53B	VII	267	—	1.05
53C	VIII	267	—	1.05
53E	IX	250	—	1.05
54	X	267	—	1.20
54A	XI	250	—	1.20
C-54A	XI	440	JJ-093	1.75
54B	XII	267	—	1.20
C-54B	XII	482	JJ-101	1.75
55	XIII	250	—	1.45
C-55B	XV	482	JJ-095	2.05
56	XIV	267	—	1.55



"LAMP JAX" SWITCHBOARD PANEL TYPES

G Quality long frame panel type lamp jacks. No. LT-47, black nylon lamp housing completely insulates lamp from frame. Interchangeable with W.E. Nos. 47A, 47B. Accepts std. lamps and lamp caps, W.E. Nos. 2, 72, etc. No. LT-48, new Ballast Lamp-Jax for use in circuits subjected to increasing temperature and wattage. Steel frame and bushing, Teflon sleeve. Accepts std. telephone lamps or ballast lamp No. 60XA. Both lamp jacks mount in std. Switchcraft jack panels.

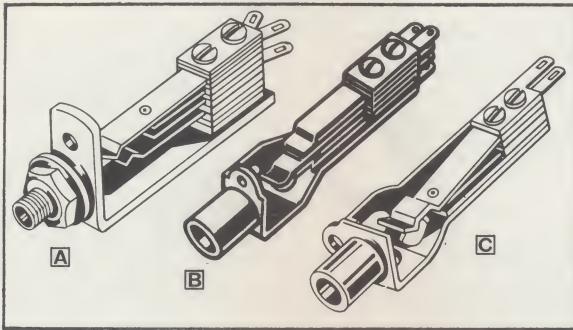
Switchcraft Part No. LT-47.....U.S.A. List Price \$1.40
Switchcraft Part No. LT-48.....U.S.A. List Price \$2.00

"THICK PANEL JAX"

H Phone jacks with long bushing. Mount in single $\frac{15}{16}$ " dia. hole in panels up to $1\frac{1}{4}$ " thick. Solder lug terminals. Ideal for use with microphones; extra shielding virtually eliminates audio hum. No. 151, 2-conductor mates with 240, 245, 250, 255, 270 and 280 Plugs. No. 152B, 3-conductor mates with 260, 267, 269 and 297 Plugs.

Part No.	Description	U.S.A. List Price
151	2-cond. Brass Nickel Plated	\$1.50
152B	3-cond. Brass Nickel Plated	1.65

FOR DETAILED SPECIFICATIONS ON THE ABOVE SWITCHCRAFT PRODUCTS CIRCLE CATALOGS NO. J-101, J-103, 151, 156 ON THE ATTACHED POSTAL CARD.

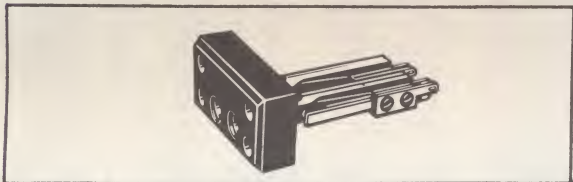


"T-JAX" TELEPHONE TYPE PHONE JACKS

Long frame, switchboard type, phone jacks. For high quality communication equipment. Springs of nickel silver alloy for maximum life and corrosion resistance. Fine silver contacts are standard. Available in two frame designs. Part numbers in chart cover "A" frame design as shown in Fig. C. For frame design "C" as shown in Fig. B, add prefix letter "C" to part numbers. All jacks listed mate with standard 1/4" dia. phone plugs.

Part No.	Schematic No.	Typical Mating Plug	Conductors	U.S.A. List Price
T-331	I	250	2	\$1.05
T-332A	III	250	2	1.20
T-332B	IV	267	3	1.20
T-332C	XVIII	250	2	1.45
T-333	V	250	2	1.35
T-334A	XI	250	2	1.50
T-334B	XII	267	3	1.60
T-334C	XVII	250	2	1.50
T-334F	XIX	250	2	1.50
T-335	XIII	250	2	1.60
T-336	XXVI	250	2	1.75

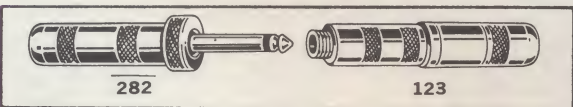
"DUAL-JACK BLOCKS"



Molded black phenolic jack blocks for mounting "MT-JAX" and "T-JAX" long frame phone jacks, on 5/8" centers. Can be rack panel mounted individually or in multiples. Blocks are 2 3/4" W. x 1 1/4" H. x 5/8" D. Mount with four No. 8-32 flat head screws.

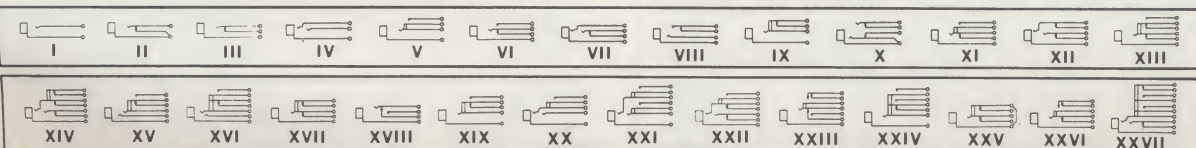
Part No.	Description	U.S.A. List Price
2300	Jack Block, less jacks	\$1.50
2331	Two MT-331 jacks	4.00
2332A	Two MT-332A jacks	4.40
2332B	Two MT-332B jacks	4.40
2333	Two MT-333 jacks	4.90

"LOCK PLUG AND EXTENSION JAX"



Standard size 1/4", 2 and 3 conductor phone plugs and mating cable extension jacks with built-in device. Plug has coupling ring that can be threaded to the bushing of a "Littel-Jax" or to the mating end of the "Lock Extension Jax". Lock Plug handle, 1 5/8" long; 1/2" dia. Lock Extension Jax, 1/2" O.D.; 2 1/2" long. All have solder lug terminals.

Part No.	Description	U.S.A. List Price
282	2-Conductor Lock Plug	\$1.50
298	3-Conductor Lock Plug	2.00
123	2-Conductor Extension Jax	2.00
133	3-Conductor Extension Jax	2.50



The above are strictly electrical schematics and do not necessarily indicate relative solder lug positions.

FOR DETAILED SPECIFICATIONS ON THE ABOVE SWITCHCRAFT PRODUCTS CIRCLE
CATALOGS NO. J-103, P-202 ON THE ATTACHED POSTAL CARD.

"M-JAX" MILITARY TYPE PHONE JACKS

Very heavy long frame jacks often referred to as the Navy Jack. Ideal for industrial and Military equipment. Long heavy duty springs with fine silver contacts. Mounts on single 5/8" hole, in panels up to 1/4" thick.

Part No.	Schematic No.	Adjusted for Plug	Mil-Type No.	U.S.A. List Price
M-441	I	250	—	\$1.50
M-442A	III	440	JJ-107	1.70
M-443A	VI	440	JJ-105	1.95
M-443B	VII	482	JJ-106	2.10
M-444*	XII	484 & 480	JJ-083	2.30
M-444B	XII	482	JJ-082	2.20
M-445	XIII	440	JJ-104	2.75
M-446	XIV	482	JJ-079	3.50
M-446A	XVI	482	JJ-081	3.90

*Bushings, .2085".

"MT-JAX" MILITARY TELEPHONE JACKS

Long frame, telephone switchboard jacks designed for high quality communication and military equipment. Springs are of a special nickel silver alloy with welded cross bar palladium contacts. MT-Jax are available in two frame designs, namely "A" & "C". Part numbers in chart cover "A" frame design as shown in Fig. C. For frame design "C" as shown in Fig. B, add prefix letter "C" to part numbers.

Part No.	Schematic No.	Adjusted for Plug	Mil-Type No.	U.S.A. List Price
MT-331	I	440*	JJ-086	\$1.25
MT-332	II	440	—	1.45
MT-332A	III	440	JJ-024	1.45
MT-332B	IV	482†	JJ-022	1.45
MT-332C	XVIII	440	JJ-016	1.70
MT-333	V	440	JJ-084	1.70
MT-333B	VII	482	—	1.70
MT-333E	IX	440	—	1.70
MT-334A	XI	440	—	1.75
MT-334B	XII	482	JJ-042	1.75
MT-334C	XVII	440	JJ-072	1.75
MT-334E	XXV	440	JJ-085	1.75
MT-334F	XIX	440	JJ-035	1.75
MT-335	XIII	440	—	2.00
MT-335A	XXVI	440	JJ-017	2.00
MT-336	XX	482	JJ-074	2.00
MT-336A	XIV	482	JJ-075	2.50
MT-336B	XXI	482	JJ-077	2.50
MT-336C	XXII	482	JJ-073	2.50
MT-336E	XXIII	440	—	2.50
CMT-336E	XXIII	440	JJ-019	2.50
MT-337	XXIV	440	JJ-087	2.50
CMT-337	XXIV	440	JJ-015	2.50
MT-339	XXVII	482	JJ-078	3.75
MT-342B§	IV	480†	—	1.70
MT-344B§	XII	480	—	2.00

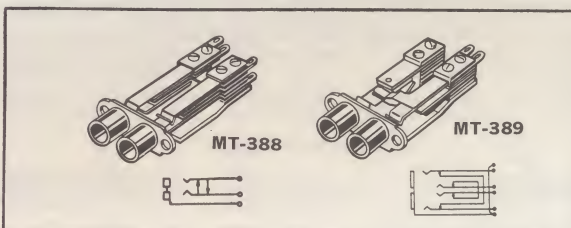
*MIL Type PJ-055.

†MIL Type PJ-051B.

‡MIL Type PJ-068.

§Bushings, .2085".

"TWIN JAX" DUAL MILITARY JACKS

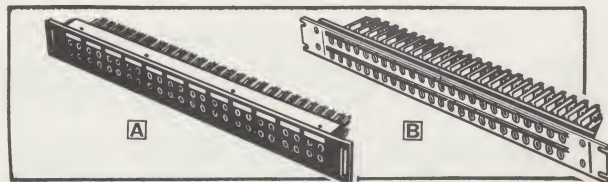


Similar in design to "MT-Jax" except frame is double width, with two mounting ears on 1 3/8" centers; bushings are on 5/8" centers. MT-388, MIL-Type No. JJ-088, mates with Nos. 411, 412, 413, 420 and 425 plugs. MT-389 has two 3-conductor jacks interconnected; mates with No. 482 Plug.

Switchcraft Part No. MT-388.....U.S.A. List Price \$4.50
Switchcraft Part No. MT-389.....U.S.A. List Price 5.00

Jack Panels, Plugs, Patch Cords

"JACK PANELS"

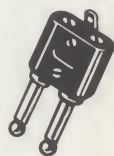


Rugged, heavy-duty jack panels for switching, distribution and control of audio signals in broadcasting stations, theaters, P. A. systems installations, etc. Series 1200, Fig. A, black phenolic panels reinforced with steel for the utmost rigidity. Mounting brackets slotted to fit all standard 19" relay racks. Panel includes plastic covered designation strips. Series 2800, Fig. B, clear anodized aluminum panel. Extremely rugged, yet lightweight. Includes new narrow designation strip for each row. Add Prefix "X" to part numbers to indicate offset ground lugs on jacks. Aluminum panels available only with offset lugs.

Part No.	Fig.	Rows	Number of Jacks	Size, In. W x D x H	U.S.A. List Price
1200	A	Single	24 *	19x1 1/4x1 3/4	\$ 14.50
1232A	A	Single	24 T-332A	19x1 1/4x1 3/4	40.00
1332A	A	Single	24 MT-332A	19x1 1/4x1 3/4	45.00
1400	A	Single	26 *	19x 5/8x1 3/4	15.00
1432A	A	Single	26 T-332A	19x 5/8x1 3/4	43.00
1532A	A	Single	26 MT-332A	19x 5/8x1 3/4	49.00
2400	A	Double	48 *	19x1 1/4x2 1/2	15.00
2432A	A	Double	48 T-332A	19x1 1/4x2 1/2	70.00
2532A	A	Double	48 MT-332A	19x1 1/4x2 1/2	83.00
2600	A	Double	52 *	19x 5/8x1 3/4	18.00
2632A	A	Double	52 T-332A	19x 5/8x1 3/4	79.00
2732A	A	Double	52 MT-332A	19x 5/8x1 3/4	92.00
2800	B	Double	48 *	19x 5/8x1 3/4	40.00
X2832A	B	Double	48 T-332A	19x 5/8x1 3/4	95.00
X2932A	B	Double	48 MT-332A	19x 5/8x1 3/4	108.00

*Supplied less jacks.

MILITARY TYPE "TWIN-PLUGS"



412

Meet exact industrial and military requirements. No. 411, both design and materials, is manufactured in accordance with MIL-P-642(A) specs. Nos. 412 and 413, use identical materials. "Twin-Plug" sleeves spaced 5/8" center to center with self-aligning feature.

Part No. 411—Two electrically independent 2-conductor plugs in black plastic handle. Has provision for Cord Clamp No. S-2674. Military Type PJ-327 (Old Navy No. 491242). Interchangeable with W.E. 327.....U.S.A. List Price **\$5.25**

Part No. 412—Two electrically independent 2-conductor plugs in black plastic handle. Has external cord clamp. Old Military Type PJ-289. Similar to W.E. 289B.....U.S.A. List Price **\$4.90**

Part No. 413—Three circuit plug with two electrically independent tip circuits in heavy duty die cast frame. Molded black phenolic handle notched to indicate polarity. Interchangeable with MIL-Type PJ-421 and W.E. 241.....U.S.A. List Price **\$4.90**

Part No. 414—Six circuit plug. Two electrically independent 3 conductor 1/4" dia. fingers. Black plastic handle. Interchangeable with WE-338A.....U.S.A. List Price **\$9.25**

Part No. 415—Six circuit plug. Two electrically independent 3 conductor fingers. One 1/4" dia. finger, one .206" dia. For automatic polarization. Black handle.....U.S.A. List Price **\$10.25**

Part No. S-2674—Strain relief clamp, natural brass. For use with Nos. 411, 414, 415 "Twin-Plug". Pkg. of 10.....U.S.A. List Price **\$0.50**

"DUMMY PLUGS"

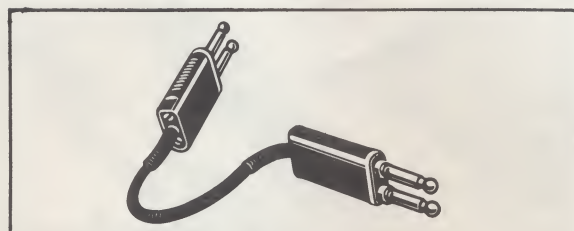


Low cost, 2- and 3-conductor molded plastic, dummy plugs for use in switchboards, jack panels. Inserts as does a phone plug to switch circuits, but can not couple incoming signals. Can also be used to plug up unused phone jacks to prevent accidental insertion of a phone plug. Series 491, 3-conductor, .207" dia. finger. Series 492, 3-conductor, .250" dia. finger. Series 493, 2-conductor, .250" dia.

Part No.	Fig.	Handle	Typical Mating Jack	U.S.A. List Price
491-01	C	Red	MT-342B	\$0.50
491-02	C	Black	MT-342B	.50
491-05	C	White	MT-342B	.50
492-01	D	Red	MT-332B	.50
492-02	D	Black	MT-332B	.50
492-05	D	White	MT-332B	.50
493-01	E	Red	MT-331	.50
493-02	E	Black	MT-331	.50
493-05	E	White	MT-331	.50

SWITCHCRAFT

PATCH CORD SETS



All patch cords are constructed of bronze tinsel conductors, insulated and shielded, with a heavy black nylon braid overall.

Series 17Q—2-conductor patch cords have No. 413 "Twin-Plug" at each end with shields grounded both ends.

Series 17P—Same as 17Q, except shield grounded one plug only.

Series 18Q—2-conductor patch cords use Military Plug PJ-051 (Switchcraft Part No. 482) at each end with shields grounded both ends.

Series 19Q—Single conductor patch cords utilize Military Plug PJ-047B (Switchcraft Part No. 420) connected to each end with shield grounded both ends.

Part No.	Length	Plugs Used	U.S.A. List Price
17QA17	6 inch	413	\$11.00
17QB17	1 foot	413	11.25
17QD17	2 feet	413	11.50
17QF17	3 feet	413	11.75
17QH17	4 feet	413	12.15
17QK17	6 feet	413	13.00
17QN17	10 feet	413	13.75
17PA17	6 inch	413	11.00
17PB17	1 foot	413	11.25
17PD17	2 feet	413	11.50
17PF17	3 feet	413	11.75
17PH17	4 feet	413	12.15
17PK17	6 feet	413	13.00
17PN17	10 feet	413	13.75
18QA18	6 inch	482	11.50
18QB18	1 foot	482	12.00
18QD18	2 feet	482	12.50
18QF18	3 feet	482	13.00
18QH18	4 feet	482	13.50
18QK18	6 feet	482	14.50
18QN18	10 feet	482	16.50
19QA19	6 inch	420	6.00
19QB19	1 foot	420	6.25
19QD19	2 feet	420	6.75
19QF19	3 feet	420	7.25
19QH19	4 feet	420	7.75
19QK19	6 feet	420	9.10
19QN19	10 feet	420	10.50

REPLACEMENT PATCH CORDS

Patch cords are made of bronze tinsel conductors, insulated and shielded, with a heavy black nylon braid overall. Cords designed for use with Switchcraft plugs 413, 420 and 482 or equivalents. When used with No. 420, clip off unnecessary lead.

Series 89Q—2-conductor shielded cord with shield termination at both ends.

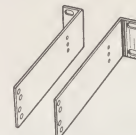
Series 89P—2-conductor shielded cord with shield termination at one end only.

Part No.		Length	U.S.A. List Price
Both Ends Shielded	One End Shielded		
89QA89	89PA89	6 inch	\$2.25
89QB89	89PB89	1 foot	2.75
89QD89	89PD89	2 feet	3.00
89QF89	89PF89	3 feet	3.25
89QH89	89PH89	4 feet	3.50
89QK89	89PK89	6 feet	4.50
89QN89	89PN89	10 feet	6.50

JACK PANEL ACCESSORIES



HOLE PLUG



BRACKET KIT

Hole Plug, P-1801, molded nylon, fits all Switchcraft jack panels, Series 1200, 1400, 2400, 2600, 2800. Designed to plug unused holes in jack panels. Bracket Kit, K-107, consists of 2 long L-shaped steel, stand-off brackets and eight No. 6-32 self-tapping screws. To hold jack panels, Series 1400, 2600, 7" in front of mounting rack.

Part No.	Description	U.S.A. List Price
P-1801	Hole Plug	\$0.30
K-107	Bracket Kit	4.50

FOR DETAILED SPECIFICATIONS ON THE ABOVE SWITCHCRAFT PRODUCTS CIRCLE CATALOGS NO. J-103, P-202 ON THE ATTACHED POSTAL CARD.

"LITTEL PLUG" PHONE PLUGS

Small size phone plugs fit standard 1/4" phone jacks except *Nos. S-250, S-260, S-280 and S-290 which have a .206" dia. sleeve. **Nos. C-240, C-245 and C-270 feature an integral cable clamp with screw terminals. †No. R-280 has short sleeve for Revere Recorders. ‡No. 288 has a wide insulator between tip and sleeve for use in a 3-conductor jack to perform a 2-conductor function without shorting. Plugs with solder terminals have built-in cable clamp. Shielded metal handles are nickel plated brass; others are molded of durable plastic; 5/8" long x 1/2" dia.

TWO-CONDUCTOR TYPE

Part No.	Fig.	Typical Mating "Littel-Jax"	Handle	Terminals	U.S.A. List Price
240	A	11	Black	Screw	\$0.85
C-240**	A	11	Black	Screw	1.00
245	A	11	Red	Screw	.85
C-245**	A	11	Red	Screw	1.00
250	A	11	Black	Solder	.80
255	A	11	Red	Solder	.80
270	B	11	Shielded	Screw	1.20
C-270**	B	11	Shielded	Screw	1.35
280	B	11	Shielded	Solder	1.15
288‡	B	11	Shielded	Solder	1.20
S-250	A	S-11	Black	Solder	.85
S-280	B	S-11	Shielded	Solder	1.15
R-280†	B	—	Shielded	Solder	1.50

THREE-CONDUCTOR TYPE

260	A	12B	Black	Screw	\$1.35
S-260*	A	S-12B	Black	Screw	1.90
267	A	12B	Black	Solder	1.20
269	A	12B	Red	Solder	1.20
290	B	12B	Shielded	Screw	1.60
S-290*	B	S-12B	Shielded	Screw	2.15
297	B	12B	Shielded	Solder	1.50

STANDARD 1/4" PHONE PLUGS

Available with phenolic or shielded, nickel plated over brass handle.

TWO-CONDUCTOR TYPE—SCREW TERMINALS

Typical mating jack "Littel-Jax" No. 11. Nos. 49 and 169 feature circuit closing device. Nos. 170 and 475 (MIL PJ-636) have two-piece handle with built-in clamp for 1/4" cable. No. 180 has wide insulator between tip and sleeve for use in a 3-conductor jack to perform a 2-conductor function without shorting.

Part No.	Fig.	Handle	Length & Dia.	U.S.A. List Price
40	A	Black	2 1/16 x 3/4	\$0.85
45	A	Red	2 1/16 x 3/4	.85
49	A	Black	2 1/16 x 3/4	1.75
70	B	Shielded	2 1/16 x 1 1/16	1.40
160	C	Shielded	1 x 1 1/16	1.10
169	C	Shielded	1 x 3/4	2.00
170	D	Shielded	2 1/16 x 1 1/16	1.85
180	—	Shielded	1 x 3/4	1.25
475	D	Shielded	1 3/4 x 3/4	2.20

THREE-CONDUCTOR TYPE—SOLDER TERMINALS

Typical mating jack "Littel-Jax" No. 12B. No. 190A has two-piece handle with built-in cable clamp for 1/4" cable.

60	A	Black	2 1/16 x 1 1/16	\$1.15
90	C	Shielded	1 x 1 1/16	1.50
190	B	Shielded	2 1/16 x 1 1/16	1.75
190A	D	Shielded	2 1/16 x 1 1/16	2.20

"LUG-PLUG" PHONE PLUGS

Low cost, two-conductor phone plugs. Fit all 1/4" phone jacks.

No. 385 Plug has a .206" dia. sleeve and mates with S-11 "Littel-Jax". All have solder lug terminals. Handle: Shielded metal or phenolic.

Part No.	Fig.	Typical Mating "Littel-Jax"	Handle	Length & Dia.	U.S.A. List Price
350	A	11	Black	1 5/8 x 1 1/2	\$0.65
355	A	11	Red	1 5/8 x 1 1/2	.65
380	—	11	Shielded	1 x 1 1/2	.85
385	—	S-11	Shielded	1 x 1 1/2	1.10

"TINI-PLUG" MINIATURE PHONE PLUGS

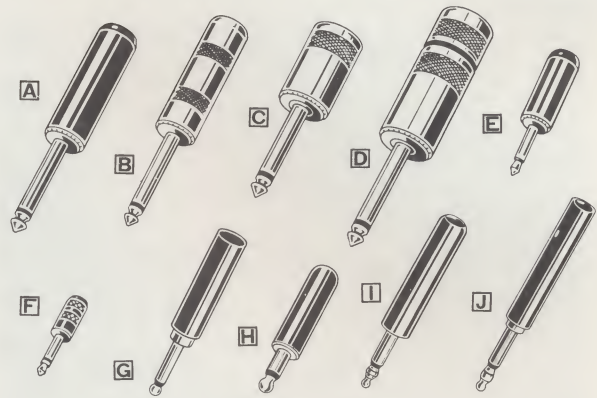
Miniature 2-conductor phone plugs for use with "TINI-JAX" only 1/3 the size of standard phone plugs. Handle 1 5/8" overall length, are plastic or brass, nickel plated.

Part No.	Fig.	Terminal	Handle	U.S.A. List Price
740	E	Screw	Black	\$0.85
745	E	Screw	Red	.85
750	E	Solder	Black	.80
755	E	Solder	Red	.80
770	E	Screw	Shielded	1.15
780	E	Solder	Shielded	1.15

"MICRO-PLUG" SUB-MINIATURE PHONE PLUGS

Sub-miniature 2-conductor phone plugs, only 1 1/4" long; 1/4" O.D., .097" dia. sleeve. Mate with No. TR-2A. Have screw-on handles in black, red or natural anodized aluminum; accommodates cables up to 1/4" dia. All plugs have integral cable clamps.

Part No.	Fig.	Description	U.S.A. List Price
850	F	Black Handle	\$0.75
855	F	Red Handle	.75
880	F	Natural Handle	.75



MILITARY TYPE

"LITTEL-PLUG" AND EXTENSION JAX

Designed to meet exact industrial and military requirements. Plugs are made in accordance with MIL-P-642(A) specifications. One-piece tip rod and one-piece sleeve and plug body provide internal interlock to prevent parts shifting in position. Type 820 Extension Jack meets MIL-J-641A specifications and mates with "Littel-Plug" No. 430. No. 470 has shielded handle; all others plastic: †Red; ‡Black. All plugs have screw terminals.

Part No.	Fig.	Mil-Type No.	Typical Mating Jack	Cond.	U.S.A. List Price
420‡	G	PJ-047B	MT-388	2	\$1.75
425‡	G	PJ-047R	MT-388	2	1.75
430‡	H	PJ-054B	820	2	1.50
435‡	H	PJ-054R	820	2	1.50
440‡	—	PJ-055B	MT-331	2	1.50
445‡	—	PJ-055R	MT-331	2	1.50
450‡	H	PJ-540B	820	2	1.50
455‡	H	PJ-540R	820	2	1.50
470	—	PJ-055M	MT-331	2	2.10
480‡	I	PJ-068	MT-342B	3	3.60
482‡	J	PJ-051R	MT-332B	3	4.00
483‡	J	PJ-051B	MT-332B	3	4.00
484‡	J	PJ-309	M-444	3	3.60
820‡	—	JJ-026	430 Plug	2	2.00

Switchcraft Part No. P-1074-1—Strain Relief Clamp. Nickel Plate Brass. Package of 25..... U.S.A. List Price \$0.85

TYPE 410 PLUG AND TYPE 810 JACK

Miniature 2-conductor extension jack and mating plug; often referred to as "Throat Microphone Plug and Jack". Plug is Military Type PJ-291; jack is Type JJ-048. Each is of two-piece molded construction. Plug has solder-cup terminals; jack has solder lugs. After wiring, shells must be cemented and clamped till dry. Overall size (engaged), 2 5/8" x 1 1/8" x 3/8".

Switchcraft Part No. 410 Plug..... U.S.A. List Price \$1.00

Switchcraft Part No. 810 Jack..... U.S.A. List Price 1.20

"FLAT PLUG" PHONE PLUGS



1/4" phone plugs featuring flat, space-saving handles. Ideal for applications where conventional plugs would protrude too far. Nos. 220, 225 have adapter clips which make them convenient to clamp standard phone tips to terminals. Shielded flat plugs, Nos. 228 and 238 have nickel plated steel handles; all others have red or black plastic handles. Nos. S-230 and S-235 have .206" dia. sleeve.

TWO-CONDUCTOR TYPE

Part No.	Fig.	Typical Mating Jack	Handle	Terminals	U.S.A. List Price
220	K	11	Black	Screw	\$1.25
225	K	11	Red	Screw	1.25
227	K	11	Black	Solder	1.00
228	L	11	Shielded	Solder	1.10
229	K	11	Red	Solder	1.00

THREE-CONDUCTOR TYPE

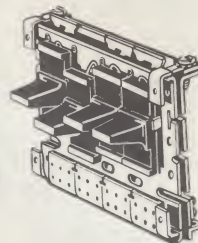
230	K	12B	Black	Screw	\$1.55
S-230	K	S-12B	Black	Screw	2.00
235	K	12B	Red	Screw	1.55
S-235	K	S-12B	Red	Screw	2.00
237	K	12B	Black	Solder	1.50
238	L	12B	Shielded	Solder	1.65
239	K	12B	Red	Solder	1.50



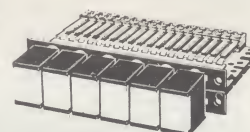
Switchcraft switches give you unlimited latitude in the selection of switching functions and actuations for customizing your equipment designs. Whether you choose pushbutton, slide or lever actuated switches, Switchcraft Authorized "Multi-Switch" Specialists can aid you in the selection and specification of the proper switch to fill your particular requirements. Switchcraft's nationwide network of factory-trained "Multi-Switch" Specialists can supply any lever switch, or any size "Multi-Slide" and/or "Multi-Switch", with virtually unlimited functions, from stock; immediately, at factory prices. "MULTI-SWITCH" PRODUCTS ARE SOLD ONLY THROUGH THIS NETWORK OF FACTORY TRAINED SPECIALISTS. Write Switchcraft for the name of your local Switchcraft Authorized "Multi-Switch" Specialist.

Only Switchcraft offers 3 complete lines of slide, multiple station pushbutton, and lever switches . . . 3 proven solutions to man-machine interface problems.

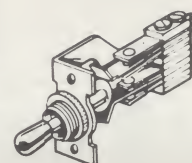
SLIDE ACTION . . . Series 39000 "Multi-Slide" switches provide design engineers with an entirely new switching method to solve man-machine system problems. "Multi-Slide" switches help eliminate operating confusion inherent in constant manipulation of pushbutton matrices by providing slide-switch variety. **Series 39000 Switches** offer 3 types of actuation: interlock, all-lock, non-lock.



PUSHBUTTON ACTION . . . Whatever your requirements for switching, you will find Switchcraft "Multi-Switch" switches enable you to design a cybernetically correct, error-reducing panel. Both illuminated and non-illuminated types are available with non-lock, all-lock, interlock, push-to-lock, push-to-release functions. Illuminated types offer single or multiple lighting effects. **Series 7000 and 21000** frames are available from 1 to 37 stations in a row. **Series 35000, 36000, 37000**, are compact switching units offering 1 to 18 stations in a row.

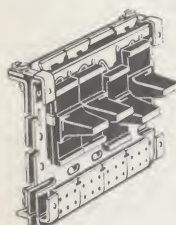


LEVER ACTION . . . Switchcraft offers the largest selection of illuminated and non-illuminated lever-type switches in the industry. They come in a wide choice of sizes, 2 or 3 position, locking and non-locking types. They range in size and style from miniaturized "Feather Lever", featuring changeable push-on color knobs to "Lever-Lite", a 3-color illuminated type lever switch; to the industry standard "Telelever", a telephone type switch featuring field changeable functions.



"MULTI-SLIDE" SWITCHES

SERIES 39000



Revolutionary compact switching method provides versatile multiple station slide switching. Allows 1 to 18 stations per row standard on all but all-lock function which is limited to 12 stations. Requires only $\frac{1}{4}$ " depth behind panel. Narrow frame design permits mounting on compact electronic equipment without sacrificing versatility or function. Three standard functions available: **Interlock:** actuating slidebutton automatically restores previously actuated station to normal. Only one slidebutton can be actuated

at a time with standard interlock function. **Nonlock:** each station has momentary action with no interaction between stations. **All-lock:** all stations, except release, lock when depressed—restore to normal when release button is actuated. Special slide-to-release cancelling feature in interlock and all-lock frames permits immediate correction of switching error without cancelling actuated switches. Slidebuttons are on $\frac{1}{2}$ " centers. Up to 3 miniature switch stacks, rated at 3 amps; 300 watts max., AC non-inductive load, can be mounted at each station for a minimum of 1-A (SPDT) to a max. of 3-C (3PDT) per station. To order, refer to "SWITCH STACKS", Series 80P, 800P. For power switching, snap switch

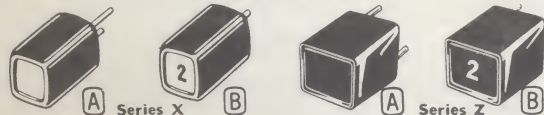
modules can be mounted to each station. Refer to "PIGGY BACK" SNAP-SWITCH MODULES, Series SA, SC and SD under little "Multi-Switch" listing. Switch frames mount on panels up to $\frac{1}{2}$ " thick. End brackets have four 6-32 tapped mtg. holes. A black slidebutton is furnished for each station and a red slidebutton is supplied when switch requires a release. A kit of chromatic legend tabs, **Part No. K-120**, is available for positive color coding of an actuated station. Kit consists of 10 tabs each of 6 colors: Red, black, green, blue, white and yellow. Pressure sensitive tabs mount easily in recess of slidebutton; can be hot-stamped for identification. The following part numbers cover basic frame only. To complete assembly, order switch stacks for each station and/or snap-switch modules, as required. Only the most commonly used frames are listed here. For complete engineering information on Series 39000 switches, request Switchcraft Bulletin 158.

Part No. For Functions			No. of Stations	Part No. For Functions			No. of Stations
Inter-Lock*	Non-Lock	All-Lock		Inter-Lock*	Non-Lock	All-Lock	
39021	39022	39023	2	39081	39082	39083	8
39041	39042	39043	4	39101	39102	39103	10
39061	39062	39063	6	39121	39122	39123	12

*With lock-out feature.

"GLO-BUTTONS"

SERIES X, Y, Z

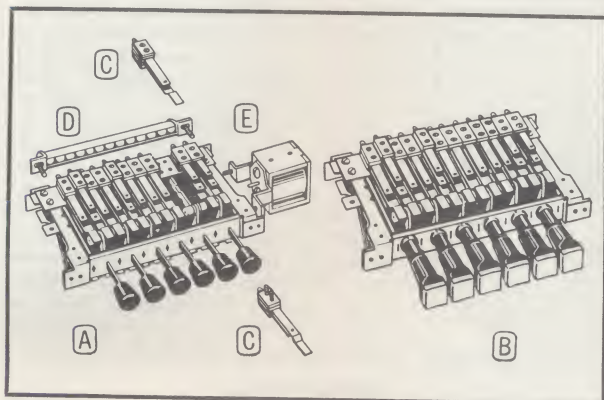


Economy of non-illuminated buttons with the vivid color-legend display of illuminated buttons. "Glo-Buttons" look and function like an illuminated button, but require no lamp or power. Mount on all pushbutton switches with std. .050" x .187" plungers, as Switchcraft Series 7000, 8000, and 35000 "Multi-Switch", and other switches having maintained plunger action with a max. of $\frac{1}{16}$ " fallback. "Glo-Buttons" have a translucent front screen on which a legend is marked in an opaque color. The opaque color provides a background for the legend while the legend itself remains clear (Figs. A). An internal fluorescent illuminator is carried on a pusher which has two legs extending from the rear. When the

button is depressed, the rear legs of the pusher bring the fluorescent illuminator flush with the screen which then lights up due to reflected ambient light, and projects a clearly visible legend, see Figs. B. All "Glo-Buttons" have black button housings and are available with std. legends: "A" thru "Z", "0" thru "50", and "ON", "OFF". Eight basic types of buttons are offered: To order, specify part number and add suffix letter or numeral to part number which describes desired legend. Example: To order $\frac{1}{2}$ " sq. "Glo-Button" with black screen, orange-red illuminator and numeral "7", part number would read X21248-7.

Series No.	Size	Screen Color	Illuminator Color
X21248	$\frac{1}{2}$ " square	Black	Orange-Red
X51248	$\frac{1}{2}$ " square	White	Orange-Red
Y21248	$\frac{3}{8}$ " h. x $\frac{3}{8}$ " w.	Black	Orange-Red
Y28248	$\frac{3}{8}$ " h. x $\frac{3}{8}$ " w.	Black	Chartreuse
Y51248	$\frac{3}{8}$ " h. x $\frac{3}{8}$ " w.	White	Orange-Red
Z21248	$\frac{3}{8}$ " h. x $\frac{3}{8}$ " w.	Black	Orange-Red
Z28248	$\frac{3}{8}$ " h. x $\frac{3}{8}$ " w.	Black	Chartreuse
Z51248	$\frac{3}{8}$ " h. x $\frac{3}{8}$ " w.	White	Orange-Red

FOR DETAILED SPECIFICATIONS ON THE ABOVE SWITCHCRAFT PRODUCTS CIRCLE CATALOG NOS. 155, E-531, 158, S-309 AND S-307 ON THE ATTACHED POSTAL CARD.



Basic design simplicity provides a unique multiple station push-button switch that's rugged, compact, versatile and completely flexible in switching functions. Hundreds of circuit and function combinations are possible as **all switching components**—frame, switch stacks, lamps and other accessories **are changeable**. Order the "Multi-Switch" you now require, from stock, and later change circuits and/or functions in the field by simple positioning adjustments of stop plate, latch bar spring, and/or interchanging or adding-on switch stacks. **For a complete multiple station assembly, you must order the proper frame and the necessary switch stacks, for each station on the frame.** Optional accessories include: **Lock-out bar** which prevents operation of more than one station at a time, and a **solenoid release** to provide automatic remote release of activated stations. Standard "Multi-Switch" frames are available with these functions: **Interlock**, restores to normal any previously actuated station when another station is actuated. **Non-Lock**, momentary action of each station. **All-Lock**, accumulative locking of all stations with restoration of all stations to normal when release station is depressed. **Specify switching function when ordering frames listed below.**

SERIES 7000 NON-ILLUMINATED FRAMES

A Heavy gauge steel switch frames mount on panels up to $\frac{3}{4}$ " thick, with $\frac{3}{4}$ " depth behind the panel. Rugged, welded end-mounting brackets have four 8-32 tapped holes for ease of panel mounting. Attractive, round brown push-on-buttons supplied for each station, plus extra red button for use when switch requires a release station. Center-to-center distance between buttons is $\frac{5}{8}$ ". Steel plunger .050" x .187" accepts standard push-on-buttons and "Glo-Buttons". Standard plunger is $1\frac{1}{2}$ " long, but can be supplied up to $5\frac{1}{4}$ " long on special order. Switch frames with buttons on $\frac{3}{4}$ " centers are available in Series 8000 which has all the same features as Series 7000. **Series 7000** "Multi-Switch" frames are available with from 1 to 37 stations; **Series 8000** from 1 to 31 stations. When ordering Series 8000 add 10% to prices. Only the most commonly used frames are listed below. For more detailed information, request Switchcraft catalog S-306.

Part No.	No. of Stations	Part No.	No. of Stations	Part No.	No. of Stations
7100	1	7500	5	7900	9
7200	2	7600	6	71000	10
7300	3	7700	7	71100	11
7400	4	7800	8	71200	12

SERIES 21000 ILLUMINATED FRAMES

B Similar in switching functions and characteristics to non-illuminated "Multi-Switch", but, with these outstanding features: modern square button design with bright uniform front and side illumination provided by lamp diffusers; knurled retaining collar for quick easy front-of-panel lamp replacement. Two lamp voltages: 6 V and 28 V. Buttons with white jewels and white diffusers are furnished for switching and release stations. Standard frames listed below provide "L" type lighting (pushbuttons light in "IN" position). To have pushbutton light in "OUT" position, prefix part No. with **M** (e.g., M21100). To have them light in both the "IN" and "OUT" positions, prefix with **N**. To avoid ordering "specials", order lighting stacks listed in next column to provide "M" and "N" lighting. Center-to-center distance between buttons is $\frac{5}{8}$ " on **Series 21000**, available with up to 37 stations in a row; **Series 22000**, buttons on $\frac{3}{4}$ " centers, available up to 31 stations only. Add 10% to price of Series 21000 when ordering Series 22000. Only the most commonly used frames are listed below. For more detailed information request Switchcraft catalog S-306. All frames are supplied less lamps and stack switches.

Part No.	No. of Stations	Part No.	No. of Stations	Part No.	No. of Stations
21100	1	21500	5	21900	9
21200	2	21600	6	211000	10
21300	3	21700	7	211100	11
21400	4	21800	8	211200	12

LAMPS FOR "MULTI-SWITCH" SWITCHES

Lamps are not furnished with **Series 21000** switches. For initial order or replacement specify **Part No. P-1593-1**, 28 V flange base lamp, Ind. No. 327; or, **Part No. P-1593-2**, 6 V flange base lamp, Ind. No. 328.

SWITCH STACKS

C Interchangeable switch stacks for mounting to "Multi-Switch" frames. Two types listed: **Series 70** stacks, fine silver contacts; **Series 70P**, welded cross-bar palladium contacts. Use where the switching circuits of a released station will return to normal before contacts of a newly operated station are actuated. Both series are rated at 3 amps, 300 watts, max., AC non-inductive load. Should more than one circuit be required, specify two (or more) stacks in order to balance the load on the plunger. With each switch, two mounting screws and one pressure plate is furnished. In addition to Series 70 and Series 70P Switch Stacks, four other Series are available, from stock.

SERIES 70—SILVER CONTACTS

Part No.	Circuits	Part No.	Circuits	Part No.	Circuits
71	1-A	73D	1-D	76	2-C
72	1-B	74	2-A	76D	2-D
73	1-C	75	2-B		

SERIES 70P—PALLADIUM CONTACTS

Part No.	Circuits	Part No.	Circuits	Part No.	Circuits
71P	1-A	73PD	1-D	76P	2-C
72P	1-B	74P	2-A	76PD	2-D
73P	1-C	75P	2-B		

LOCK-OUT BAR "K" SERIES

D Prevents operation of more than one switching station at a time. Mounts on back of standard "Multi-Switch" Series 7000, 8000, 21000 and 22000 frames with two screws (furnished). Available from 2 to 37 stations for a single frame. Lock-Out Bars listed are for $\frac{3}{8}$ " center plunger only; for $\frac{1}{4}$ " centers, order special.

Part No.	Stations	Part No.	Stations	Part No.	Stations
K-02	2	K-06	6	K-10	10
K-03	3	K-07	7	K-11	11
K-04	4	K-08	8	K-12	12
K-05	5	K-09	9		

SOLENOID RELEASE—"J" SERIES

E Two, simple solenoid assemblies are available that can be easily added on the end of a standard frame assembly by two screws. **Part No. J-1** is for use on interlocked switches; **Part No. J-3**, for use on all-lock switches with up to 12 stations. Both are for use in 115 volt, 60 cycle AC circuits. Complete with mounting bracket and screws.

LIGHTING STACKS

Prepackaged lighting stacks convert standard stock **Series 21000** frames from "L" type lighting to "M" or "N" lighting in the field. Use "NB" type stack to complete lighting circuit with all three types of lighting "L", "M", "N". All mount easily to frame. Two mounting screws and one pressure plate furnished with each switch. Order one stack for each station.

Part No.	Type of Lighting
LL	"L"—light on in "IN" position
MM	"M"—light on in "OUT" position
NN	"N"—light on in "IN" and "OUT" positions
NB	Completes lighting circuit

COMBINATION SWITCH STACKS

Consists of a lighting stack with a switching stack in a single pre-assembled pile-up. Designed to provide additional switching circuitry on **Series 21000** frames. Replaces original lighting stacks as furnished with frames. Available in all three lighting arrangements with fine silver contacts, **Series 70**; or, with welded cross-bar palladium contacts, **Series 70P**. Both rated at 3 amps, 300 watts, max., AC non-inductive load. Supplied with mounting screws and pressure plate.

Part No.	Circuits	Lighting	Part No.	Circuits	Lighting
LL71	1-A	L	LL71P	1-A	L
MM71	1-A	M	MM71P	1-A	M
NN71	1-A	N	NN71P	1-A	N
NB71	1-A		NB71P	1-A	
LL73	1-C	L	LL73P	1-C	L
MM73	1-C	M	MM73P	1-C	M
NN73	1-C	N	NN73P	1-C	N
NB73	1-C		NB73P	1-C	

"PIGGY-BACK" SNAP SWITCH MODULES

Two snap switch modules **Part Nos. 73SA** and **73SB** provide power switching for "Multi-Switch" and "Push-Push" Switches. Module consists of snap-action switch, actuator, mounting bracket and screws. **No. 73SA** mounts on Series 7000, 8000, 21000, 22000 frames and Series 5000 "Push-Push" Switch. **No. 73SB** mounts on Series 15000 "Push-Push" Switch. Both rated at 15 amps, $\frac{1}{2}$ HP, 125/250 VAC. Each module provides a 1-C circuit. Supplied with mounting hardware and instruction sheet.

ESCUTCHEON PLATES

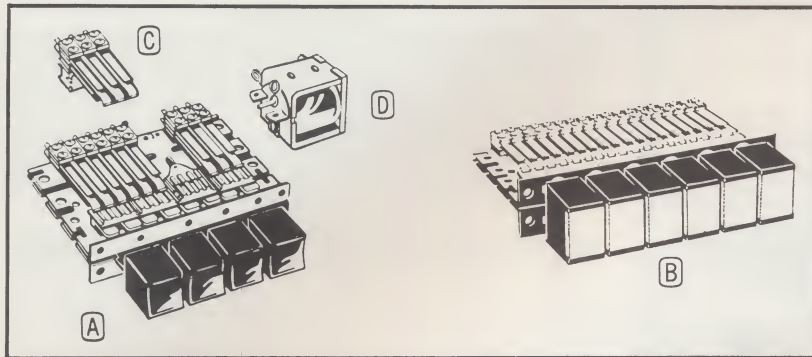
Attractive escutcheon plates for **Series 7000** non-illuminated "Multi-Switch". Black satin finish over a $\frac{1}{32}$ " thick aluminum plate; back side has paper backing, which when removed exposes a pressure sensitive adhesive which "sticks" plate to panel. Listed below are standard lengths.

Part No.	Stations	Part No.	Stations
ES-04	4	ES-12	12
ES-06	6	ES-18	18
ES-08	8		

FOR DETAILED SPECIFICATIONS ON THE ABOVE SWITCHCRAFT PRODUCTS CIRCLE CATALOG NO. S-306 ON THE ATTACHED POSTAL CARD.

Littel "Multi-Switch" Switches

SWITCHCRAFT



SERIES 35000 NON-ILLUMINATED FRAMES

(A) Switch frames mount on panels up to $\frac{1}{8}$ " thick. Permits 6 PDT switching in .6 sq. in. Narrow rectangular silhouette permits stacking in parallel rows on $\frac{1}{4}$ " centers. Only $2\frac{3}{16}$ " depth behind panel. End brackets have four 6-32 tapped mounting holes. A square black pushbutton is furnished for each station and an extra red button is supplied for use when switch requires a release. The following part numbers cover basic frames only. To complete assembly, order switch stacks for each station, solenoid releases, and snap-switch modules if required. Only the most commonly used frames are listed here:

Part Numbers For Functions				
Interlock	Non-Lock	All-Lock	Push-to-Lock, Push-to-Release	No. of Stations
35021	35022	35023	35027	2
35041	35042	35043	35047	4
35061	35062	35063	35067	6
35081	35082	35083	35087	8
35101	35102	35103	35107	10
35121	35122	35123	35127	12

SERIES 37000 SINGLE LAMP ILLUMINATED FRAMES

(B) Identical in switching functions and characteristics as non-illuminated Series 35000, but feature large rectangular shaped pushbuttons which serve as a color or legend coded panel indicator light which actuates up to 6 PDT switching. Switch frames mount in parallel rows from 1" centers and up. Depth behind panel $2\frac{3}{16}$ ". Pushbuttons with large transparent clear display screen and white legend insert, which can be hot stamped or engraved, are furnished for switching and release stations. A single 6 V or 28 V lamp can be used at each station. Lighting, such as "L"—pushbuttons light in "IN" position; "M"—pushbuttons light in "OUT" position; and "N"—pushbuttons light in both "IN" and "OUT" positions, can be effected by direct wiring to the lamp terminals or through the use of Series H Lighting Stacks. The following part numbers cover basic frames only. To complete assembly, order switch stacks, lighting stacks, and lamps for each station. Only the most commonly used frames are listed here:

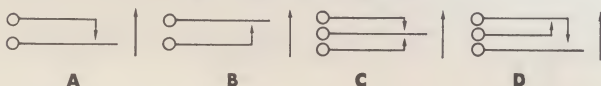
Part Numbers For Functions				
Interlock	Non-Lock	All-Lock	Push-to-Lock, Push-to-Release	No. of Stations
37021	37022	37023	37027	2
37041	37042	37043	37047	4
37061	37062	37063	37067	6
37081	37082	37083	37087	8
37101	37102	37103	37107	10
37121	37122	37123	37127	12

SERIES 38000 TWIN LAMP ILLUMINATED FRAMES

(B) Same compact assembly and versatility as Series 37000, except features twin lamp illumination at each station for redundant or two color, split-face lighting. Uses Series H lighting stacks and two long life Part No. P-1890, 6 V lamps for choice of "L", "M", or "N" lighting. Each button serves as a color legend coded indicator light which actuates up to 3 PDT switching where Series H lighting stacks are used. Switches can be stacked in parallel rows on 1" centers with only $2\frac{3}{16}$ " depth behind panel. The following part numbers cover basic frames only. For complete switch assembly order switch stacks, lighting stacks, lamps for each station, plus solenoid release, if needed. Only the most commonly used frames are listed here:

Part Numbers For Functions				
Interlock	Non-Lock	All-Lock	Push-to-Lock, Push-to-Release	No. of Stations
38021	38022	38023	38027	2
38041	38042	38043	38047	4
38061	38062	38063	38067	6
38081	38082	38083	38087	8
38101	38102	38103	38107	10
38121	38122	38123	38127	12

BASIC CONTACT FORMS



FOR DETAILED SPECIFICATIONS ON THE ABOVE SWITCHCRAFT PRODUCTS CIRCLE CATALOG NO. S-323 ON THE ATTACHED POSTAL CARD.

Compact, versatile, low-cost multiple station pushbutton switches. Four standard functions available: **Interlock**—actuating a button automatically restores to normal the button previously actuated. **Lock-Out**—prevents operation of more than one button at a time. This feature is included on all interlock frames. **Non-Lock**—each button has momentary action. **All-Lock**—all buttons, except release, lock when depressed. All buttons restored to normal by actuating release button. **Push-to-Lock, Push-to-Release**—button locks when depressed and is released when again depressed. Buttons on $\frac{3}{8}$ " centers. Frames available from 1 to 18 stations.

SWITCH STACKS

(C) Interchangeable switch stacks for Littel "Multi-Switch" switches, Series 35000, 37000, 38000. Series 80P, constructed with cross-bar welded palladium contacts. For use where switch contacts of a released station will return to normal before contacts of a newly operated station are actuated. Series 800P, same as 80P, except designed to be used on push-to-lock, push-to-release function. Both Series rated 3 amps, 300 watts max., AC non-inductive load. Switch stacks fasten direct to removable switch mounting brackets. Supplied with two mounting screws and one pressure plate.

Series 80P Part No.	Series 800P Part No.	Circuits	Series 80P Part No.	Series 800P Part No.	Circuits
81P	801P	1-A	83P	803P	1-C
82P	802P	1-B	83PD	803PD	1-D

LIGHTING SWITCH STACKS

Two lighting switch stacks, Part Nos. H-83P and H-803P are available for convenient rear-of-frame lamp circuit wiring on Series 37000 and 38000 frames. Stacks consist of standard Series 80P and 800P switch stacks with an extra long contact leaf spring on top. Use No. H-83P for all functions except push-to-lock, push-to-release; No. H-803P for push-to-lock, push-to-release. Each provide 1-C circuitry. Furnished with two screws and pressure plate.

"PIGGY-BACK" SNAP-SWITCH MODULES

Increases the switching load capacity of Littel "Multi-Switch" switches from 3 amps to 15 amps. Module consists of snap-action switch, actuator and mounting bracket. Two types available: Miniature types No. 83SA, for all switching functions except push-to-lock, push-to-release; No. 803SA, for push-to-lock, push-to-release function. Both rated at 15 amps, $\frac{1}{2}$ HP, 125/250 VAC. Subminiature types Nos. 83SC and 83SD, are similar to No. 83SA in function, and Nos. 803SC, 803SD are similar to No. 803SA in function. Subminiature types are rated at 10 amps, $\frac{1}{4}$ HP, 125 VAC. All supplied with mounting hardware. Solder terminals.

Part No.	SPDT Circuits	Part No.	SPDT Circuits	Part No.	SPDT Circuits
83SA	1	83SC	1	803SC	1
803SA	1	83SD	2	803SD	2

SERIES NJ SOLENOID RELEASE

(D) A simple solenoid assembly which can be added to the end of a standard Series 35000, 37000, or 38000, Littel "Multi-Switch" frame to provide electrical release of activated stations. No. NJ-1 designed for use with up to 18 interlock stations; No. NJ-3 will handle up to 12 all-lock stations. Both are for use in 115 V, 60 cycle AC circuits. Mounting instructions and hardware furnished with each solenoid.

LAMP ADAPTER

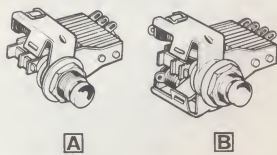


Lamp Adapter, Part No. T-1, converts Series 21000 and 37000 lamp sockets that accommodate P-1593-2, -1 lamps, to accept the P-1890 subminiature lamps. Order a Part No. T-1 lamp adapter for each station of a Series 21000 and 37000 if long-life P-1890 lamp is specified.

LAMPS FOR LITTEL "MULTI-SWITCH" SWITCHES

Lamps are not furnished with Series 37000, or 38000 switches. Series 37000 will accept lamps P-1593-2 (6 V) and P-1593-1 (28 V). Series 37000 uses long life P-1890 (6 V) lamp when used with T-1 lamp adapter. Series 38000 accepts only the P-1890 lamp. For initial order or replacement, specify: Part No. P-1593-2, 6 V flange base lamp—Ind. No. 328; Part No. P-1890, subminiature 6 V flange base lamp—Ind. No. 718; Part No. P-1593-1, 28 V flange base lamp—Ind. No. 327.

NEW ILLUMINATED "NF-LITE" SWITCHES



Series 4100 and 4200 "NF-LITE" illuminated switches indicate switching and circuit functions at a glance. Flat frame construction provides multiple pole momentary action switching. Lighting circuit is independent of switching circuit. Ideal for control panel or press-to-test applications. Contacts are fine silver rated at 3 amps, 300 watts max., A.C., non-inductive load.

Series 4100, Fig. A, uses single miniature lamp, 6V or 28V. Light from lamp is filtered through color chip to clear plastic push-button. Various colored chips can be inserted at any time. Series 4200, Fig. B, same as Series 4100, except utilizes two lamps for greater illumination or color coding of two circuit conditions. Both series require $\frac{1}{16}$ " min., $\frac{1}{8}$ " max. depth behind panel depending on size of stack; mounts in $\frac{3}{8}$ " hole in panels up to $\frac{1}{4}$ " thick. Series 4100 furnished with one kit of 4 color chips (red, amber, green, and yellow). Series 4200 furnished with two kits. Lamps must be purchased separately. See lamp listing below.

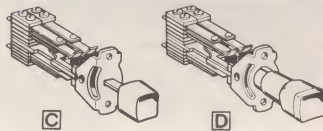
SERIES 4100

Part Number	Action	Schematic Circuit	U.S.A. List Price
4101	S.P.S.T.n.o.	1-A	\$ 1.95
4103	S.P.D.T.	1-C	2.10
4104	D.P.S.T.n.o.	2-A	2.20
4106	D.P.D.T.	2-C	2.45
4109	3 P.D.T.	3-C	3.00

SERIES 4200

Part Number	Action	Schematic Circuit	U.S.A. List Price
4201	S.P.S.T.n.o.	1-A	\$2.85
4203	S.P.D.T.	1-C	3.00
4204	D.P.S.T.n.o.	2-A	3.10
4206	D.P.D.T.	2-C	3.35
4209	3 P.D.T.	3-C	3.90

"PUSH-PUSH" SWITCHES



Push-to-lock, push-to-release or momentary action push-button switches. Welded cross-bar palladium contacts rated at 3 amps, 300 watts, max., non-inductive load. Mount with two 3-48 screws (not supplied) on $\frac{5}{16}$ " centers.

Depth behind panel, 2 $\frac{1}{8}$ ". Series 5000, Fig. C, non-illuminated, supplied with square brown button. Series 15000, Fig. D, illuminated; available in three lighting arrangements, "I" button lights in "IN" position; "M" button lights in "OUT" position; "N" button lights in "IN" and "OUT" positions. Series 15000 part numbers listed below provide "I" type lighting. For "M" type prefix part no. with "M"; for "N" type prefix part no. with "N". Series 15000 supplied less lamp. 6V or 28V lamps can be used.

*Add suffix letter "L" to part number to indicate locking type.

NON-ILLUMINATED SERIES 5000

Part Number Non-locking*	Action	Schematic Circuit	U.S.A. List Price
5003	S.P.D.T.	1-C	\$ 6.00
5004	D.P.S.T.n.o.	2-A	6.50
5006	D.P.D.T.	2-C	6.75
5008	4 P.S.T.n.o.	4-A	7.60
5009	3 P.D.T.	3-C	7.75
5012	4 P.D.T.	4-C	9.00

ILLUMINATED SERIES 15000

Part Number	Action	Schematic Circuit	U.S.A. List Price
15003	S.P.D.T.	1-C	\$ 8.50
15004	D.P.S.T.n.o.	2-A	9.00
15006	D.P.D.T.	2-C	9.25
15008	4 P.S.T.n.o.	4-A	10.00
15009	3 P.D.T.	3-C	10.25
15012	4 P.D.T.	4-C	11.50

LAMPS FOR ILLUMINATED SWITCHES

The "NF-Lite", "Littel-Lite" and "Push-Push" Switches are not supplied with lamps. When ordering these switches, be sure to specify:

Part No.	Used with Switch	Voltage	Lamp Base	Ind. No.	U.S.A. List Price
P-1217	NF-Lite	6	Screw	1768	\$1.20
P-1218	Littel-Lite	28	Screw	335	2.00
P-1593-1	NF-Lite	28	Flange	327	1.50
P-1593-2	Push-Push	6	Flange	328	1.20

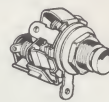
"TINY SWITCH" PUSH-BUTTON SWITCHES



Series 950, red button, and Series 960, black button, subminiature push-button switches for limited space applications. Integral contacts suitable for low level circuits where contact resistance is not important. Mounts in $\frac{1}{4}$ " hole in panels up to $\frac{3}{32}$ " thick; depth behind panel $\frac{3}{8}$ ".

Part Number		Action	Schematic Circuit	U.S.A.
Red Button	Black Button			List Price
951	961	S.P.S.T.n.o.	1-A	\$0.95
952	962	S.P.S.T.n.c.	1-B	.95
953	963	S.P.D.T.	1-C	1.10

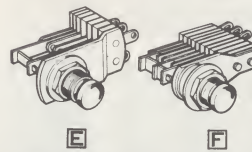
NEW ILLUMINATED "LITTEL-LITE" SWITCHES



Series 210 "Littel-Lite" Switches are unusually small, momentary contact, illuminated push-button types. Requires minimum panel space; ideal for limited space applications and press-to-test circuits. One-piece, clear plastic button and shaft is illuminated by a single miniature lamp, 6V or 28V. Lamps are not furnished, see lamp listing below. Includes kit of 4 color chips (red, amber, green, and yellow), can be inserted in switch at any time. Nickel silver spring contacts are recommended for low level circuits where contact resistance is not important. Also available, fine silver contacts (Part No. suffix "S") rated at 3 amps, 300 watts, max., A.C. non-inductive load. Lighting circuit is independent of switching circuit. Mounts in single $\frac{3}{8}$ " hole in panels up to $\frac{1}{4}$ " thick; depth behind panel $\frac{1}{16}$ ".

Part Number	Action	Schematic Circuit	U.S.A. List Price
211	S.P.S.T.n.o.	1-A	\$1.70
212	S.P.S.T.n.c.	1-B	1.70
213	S.P.D.T.	1-C	2.00
211S	S.P.S.T.n.o.	1-A	1.95
212S	S.P.S.T.n.c.	1-B	1.95
213S	S.P.D.T.	1-C	2.25

NON-LOCKING FLAT FRAME SWITCHES

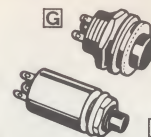


FF Switches. Fig. E, Series 1000. Flat frame construction provides multiple pole switching with minimum depth behind panel. Fine silver contacts rated at 3 amps, 300 Watts Max., A.C., non-inductive load. One piece black button and shaft. $\frac{3}{8}$ " diameter threaded shank; mounts in panels up to $\frac{1}{4}$ " thick.

NF Switches. Fig. F, Series 4000, same as FF Switches, except smaller spring design, ideal for mounting in ultra-compact equipment. Only $\frac{1}{2}$ " W.; $1\frac{1}{8}$ " L.; mounts in $\frac{3}{8}$ " hole in panels up to $\frac{3}{32}$ " thick.

Part Numbers Series 1000	Series 4000	Action	Schematic Circuit	U.S.A. List Price
1001	4001	S.P.S.T.n.o.	1-A	\$1.15
1002	4002	S.P.S.T.n.c.	1-B	1.15
1003	4003	S.P.D.T.	1-C	1.30
1004	4004	D.P.S.T.n.o.	2-A	1.45
1005	4005	D.P.S.T.n.c.	2-B	1.45
1006	4006	D.P.D.T.	2-C	1.70
1009	4009	3 P.D.T.	3-C	2.30

"BUTTON SWITCH" SWITCHES



Series 903, 923. Unusually small, momentary action push button switches. Enclosed in metal housing; black or red plastic button. Series 903, Fig. G, back panel mounting; $\frac{1}{16}$ " hole, mounts in panels up to $\frac{1}{16}$ " thick. Series 923, Fig. H, front panel mounting; $\frac{1}{4}$ " hole, mounts in panels up to $\frac{3}{16}$ " thick. Both rated at 250 mils, AC, non-inductive load, 30 watts max.

Part Nos. Red Button	Black Button	Action	Schematic Circuit	U.S.A. List Price
903	913	S.P.D.T.	1-C	\$1.40
903D	913D	"Break-Make"	1-D	1.40
923	933	S.P.D.T.	1-C	1.50
923D	933D	"Break-Make"	1-D	1.50

"LITTEL-SWITCH" SWITCHES

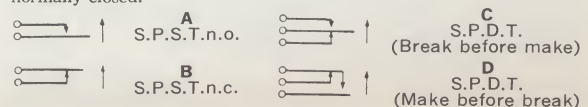


Series 100, 200, tiny momentary contact push button switches. Rugged, dependable action. All contacts insulated from panel bushing with interlocking phenolic washers. Series 100 and 200, springs are of nickel silver, recommended only for low level circuits where contact resistance is unimportant. Series 100S and 200S have fine silver contacts rated at 3 amps or 300 watts max., A.C., non-inductive load. One-piece plastic button and shaft in red or black. Mounts in $\frac{3}{8}$ " hole in panels up to $\frac{1}{4}$ ".

Part Nos. Red Button	Black Button	Action	Schematic Circuit	U.S.A. List Price
101	201	S.P.S.T. n.o.	1-A	\$0.95
101S	201S	S.P.S.T. n.o.	1-A	1.15
102	202	S.P.S.T. n.c.	1-B	.95
102S	202S	S.P.S.T. n.c.	1-B	1.15
103	203	S.P.D.T.	1-C	1.10
103S	203S	S.P.D.T.	1-C	1.35

BASIC SCHEMATIC CIRCUITS

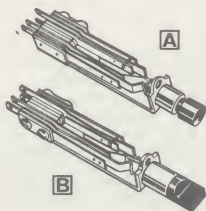
Switch circuitry can be described as combinations of basic schematic circuits as shown below. N.O. means normally open; N.C. means normally closed.



FOR DETAILED SPECIFICATIONS ON THE ABOVE SWITCHCRAFT PRODUCTS CIRCLE CATALOG NOS. S-301, S-306, 125 ON THE ATTACHED POSTAL CARD.

Pushbutton Switches

SWITCHCRAFT
INC.



"T-SWITCH" SWITCHES

Rugged, long frame switches for quality communication equipment. Welded cross bar palladium contacts rated at 3 amps, 300 watts max., A.C., non-inductive load. Requires minimum of panel space, only $\frac{1}{8} \times \frac{1}{4}$; $2\frac{3}{8}$ depth behind panel. Series 11000, Fig. A, push button T-Switch. Available in momentary action and push-to-lock, pull-to-release action. Series 11200, Fig. B, two position turn button T-Switch. Available in non-locking and locking action. Black button with white arrow to indicate switching position.

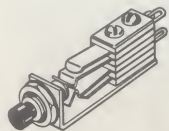
*Add Suffix "L" to Part Numbers to Indicate Locking Type.

A PUSH BUTTON—SERIES 11000

Part No. Non-Locking*	Action	Schematic Circuit	U.S.A. List Price
11001	S.P.S.T. n.o.	1-A	\$3.50
11002	S.P.S.T. n.c.	1-B	3.50
11003	S.P.D.T.	1-C	4.00
11003D	S.P.D.T.	1-D	4.00
11004	D.P.S.T. n.o.	2-A	4.50
11005	D.P.S.T. n.c.	2-B	4.50
11006	D.P.D.T.	2-C	5.00
11006D	D.P.D.T.	2-D	5.00
11008	4 P.S.T. n.o.	4-A	5.60
11009	3 P.D.T.	3-C	6.00
11012	4 P.D.T.	4-C	6.80

B TURN BUTTON—SERIES 11200

11201	S.P.S.T. n.o.	1-A	\$3.50
11202	S.P.S.T. n.c.	1-B	3.50
11203	S.P.D.T.	1-C	4.00
11203D	S.P.D.T.	1-D	4.00
11204	D.P.S.T. n.o.	2-A	4.50
11205	D.P.S.T. n.c.	2-B	4.50
11206	D.P.D.T.	2-C	5.00
11206D	D.P.D.T.	2-D	5.00
11208	4 P.S.T. n.o.	4-A	5.60
11209	3 P.D.T.	3-C	6.00
11212	4 P.D.T.	4-C	6.80



MINIATURE "TF" BUTTON SWITCHES

"Tiny Frame" switches. Small, sturdily constructed, provides simple, direct acting push button switching for use where space is at a premium. Available in Series 970L push-to-lock, pull-to-release; or Series 970, momentary action. Nickel silver springs, integral contacts, recommended for low level circuits where contact resistance is unimportant. Requires only $1\frac{1}{8}$ depth behind panel; mounts in single $\frac{1}{4}$ hole in panels up to $\frac{1}{4}$ thick.

SERIES 970—NON-LOCKING

Part No.	Action	Schematic Circuit	U.S.A. List Price
974	D.P.S.T. n.o.	2-A	\$1.30
975	D.P.S.T. n.c.	2-B	1.30
976	D.P.D.T.	2-C	1.30

SERIES 970L—LOCKING

974L	D.P.S.T. n.o.	2-A	\$1.55
975L	D.P.S.T. n.c.	2-B	1.55
976L	D.P.D.T.	2-C	1.55

"CordMASTER" PENDANT SWITCH



Fig. A

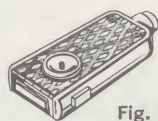


Fig. B

Extremely versatile pendant (cord) switch with top or edge operated pushbutton operation, illuminated and non-illuminated. Attractively patterned stainless steel sheath fits over white shock resistant thermoplastic switch housing to provide greater strength. Series 42000, Fig. A, has top operated pushbutton action. Three standard functions available: non-lock—momentary action; locking—button locks when depressed, releases when side button is depressed; push-to-lock, push-to-release—button locks when depressed and is released when depressed again. Series 42000E, Fig. B, has edge operation; supplied with "L" type illumination (top jewel lights when button is depressed). Illumination supplied by Ind. No. 377, 6 V miniature, T-1 $\frac{1}{4}$ flange base lamp (not supplied with switch). Part No. listed has locking function with front button release. Both Series have spring tempered nickel silver contact springs with cross-bar welded palladium contacts rated at 2 amps, 200 watts, max. A.C., non-inductive load. This switch is not recommended for 120 V A.C. line switching. Switches accept cables up to .270" dia. Overall dimensions: $1\frac{1}{4}$ "W. x $3\frac{1}{4}$ "L. x $\frac{1}{4}$ "H.

Part No.	Function	Action	Schematic	U.S.A. List Price
42206	Non-Lock	DPDT	2-C	\$ 9.00
42306	Locking	DPDT	2-C	9.50
42706	Push-to-Lock, Push-to-Release	DPDT	2-C	10.00
42306E	Locking	DPDT	2-C	10.50



"CORD SWITCHES"

An attractive bright nickel plated housing supports Series 903 and 913 button switches. Ideal for cord mounted or pendant switch on remote control applications. Sleeve $\frac{1}{16}$ diameter, $2\frac{1}{8}$ long.

Part Nos. Red Button	Part Nos. Black Button	Action	Schematic Circuit	U.S.A. List Price
E-903	E-913	S.P.D.T.	1-C	\$2.25
E-903D	E-913D	"Break-Make" S.P.D.T.	1-D	2.25
		"Make-Break"		



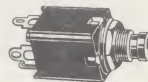
"CORDETTE" PENDANT SWITCHES

Small lightweight pendant, momentary action (cord) switches provide remote switching of industrial and commercial instrumentation and control devices. Attractive one-piece grey molded body protects switching controls from dirt and dust. Switch has 1-A (S.P.S.T.)

circuit. Integral brass, hard gold contacts rated at 500 MA., 50 watts max., A.C. non-inductive load. Not recommended for use in high voltage circuits. Part No. 921 has phono jack termination molded to body. Mates with Switchcraft molded cable assemblies with phono plug terminations such as 3501, 3501MC, etc. or industry standard phono plugs. Part No. 921K same as 921 except 6' of 2-cond. unshielded cable molded to switch body. Stripped and tinned cable termination. Overall dimensions $1\frac{1}{8}$ wide by $2\frac{1}{8}$ long (not including cable).

Switchcraft Part No. 921..... U.S.A. List Price \$4.25
Switchcraft Part No. 921K..... U.S.A. List Price \$5.00

"HI-D SWITCH" SWITCHES



Series H-100, H-200—compact momentary action switches. Molded box body protects contact springs. Low electrical leakage, low capacity. Integral fine-silver plated contacts for use in circuits where contact resistance is not critical. One piece plastic button and shaft in Red—Series H-100, and Black

—Series H-200. Mounts on $\frac{1}{8}$ centers in either of two planes; in a single $\frac{1}{8}$ hole in panels up to $\frac{1}{4}$ thick. Depth behind panel $1\frac{1}{4}$.

Part Nos. Red Button	Part Nos. Black Button	Action	Schematic Circuit	U.S.A. List Price
H-101	H-201	S.P.S.T.n.o.	1-A	\$1.00
H-102	H-202	S.P.S.T.n.c.	1-B	1.00
H-103	H-203	S.P.D.T.	1-C	1.15
H-103D	H-203D	S.P.D.T.	1-D	1.15

SERIES DA SWITCH

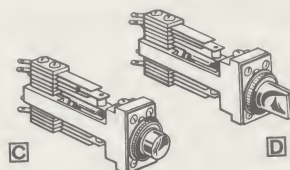


Series DA. Completely enclosed, momentary action push-button switch. Anodized aluminum body protects switch contacts from dirt, dust and from being bent. A-B contact arrangement provides a 1-A, 1-B or 1-C circuit when externally wired. Integral hard gold plated contacts rated at 500 MA., 50 watts max., A.C., non-inductive load. Terminals accept AMP Series 53 taper pins. Mount in $\frac{1}{8}$ hole on $\frac{1}{4}$ centers. Depth behind panel $1\frac{1}{8}$.

Part No.	Button Color	Part No.	Button Color	U.S.A. List Price
DA-01-3	Red	DA-04-3	Blue	\$2.25
DA-02-3	Black	DA-05-3	White	2.25
DA-03-3	Green	DA-08-3	Yellow	2.25

"T-LITE" SWITCHES

Series 32000, 32000TL. High-quality illuminated switches, ideal for instrumentation, communication equipment and telephone apparatus. Lightweight, extremely rugged aluminum "T-Beam" frame construction. Frame includes a non-turn device. "Frosted" plastic push-buttons give quick visual indication of switching function or circuit condition. Series 32000, Fig. C, momentary action, pushbutton can be engraved. Series 32000TL, Fig. D, momentary push with turn-to-lock feature. Button has black indicator line to indicate switching position. Utilize T-2 telephone slide base lamp. Relamp from front of panel. Lamps not supplied with switch. Long leaf nickel silver springs with cross-bar palladium contacts rated at 3 amps, 300 watts, max., A.C. non-inductive load. Mount in single $\frac{1}{8}$ hole on $\frac{1}{4}$ centers in panels $\frac{1}{4}$ thick. Depth behind panel $3\frac{1}{8}$.



momentary action, pushbutton can be engraved.

SERIES 32000 PUSHBUTTON

Part No.	Action	Schematic Circuit	U.S.A. List Price
32004	D.P.S.T.n.o.	2-A	\$10.00
32006	D.P.D.T.	2-C	10.75
32008	4P.S.T.n.o.	4-A	11.50
32012	4P.D.T.	4-C	13.00

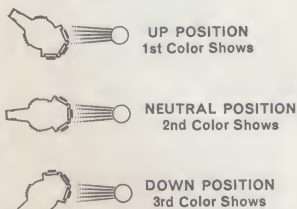
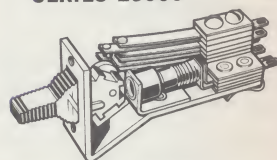
SERIES 32000TL TURN BUTTON

32004TL	D.P.S.T.n.o.	2-A	10.50
32006TL	D.P.D.T.	2-C	11.25
32008TL	4P.S.T.n.o.	4-A	12.00
32012TL	4P.D.T.	4-C	13.50

FOR DETAILED SPECIFICATIONS ON THE ABOVE SWITCHCRAFT PRODUCTS CIRCLE CATALOG NOS. S-301, 152, 153, 165 AND E-537 ON THE ATTACHED POSTAL CARD.

3-COLOR ILLUMINATED LEVER SWITCHES

"LEVER-LITE" SWITCHES SERIES 25000



"Lever-Lite", Series 25000. Illuminated switches indicate positions at a glance. Individual color chips can be inserted in each switch position. Available in 2 or 3 positions, locking and non-locking types. Reduces panel space; minimizes costly wiring. Supplied with 6V miniature screw base lamp and six color chips, Red, Green, Amber, Yellow, Blue and White; 28V lamp also available. See lamp listing below. Nickel-silver springs, silver contacts rated 3 amps, 300 watts max., A.C., non-inductive load. Requires only $2\frac{1}{4}$ " depth behind panel, can be mounted on $\frac{5}{8}$ " centers in panels up to $\frac{3}{8}$ " thick.

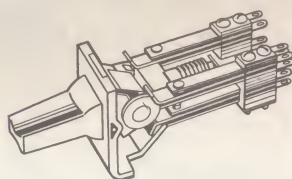
Size: $2\frac{1}{4}$ " L. x $\frac{3}{4}$ " W. x $1\frac{1}{2}$ " H. *Add suffix letter "L" to Part No. to indicate locking type.

TWO POSITION TYPES

Part No. Non-Locking*	Action	Schematic Circuit Pos. 1 Pos. 2	U.S.A. List Price
25201	S.P.S.T. n.o.	1-A	\$4.00
25203	S.P.D.T.	1-C	4.25
25206	D.P.D.T.	2-C	5.00
25209	3 P.D.T.	3-C	5.75

THREE POSITION TYPES

25304	S.P.S.T. n.o. Ea. Sec.	1-A 1-A	\$4.50
25306	S.P.D.T. Ea. Sec.	1-C 1-C	5.00
25308	D.P.S.T. n.o. Ea. Sec.	2-A 2-A	5.50
25312	D.P.D.T. Ea. Sec.	2-C 2-C	6.00



"LEVER-LITE" SWITCHES SERIES 27000

"Lever-Lite", Series 27000 illuminated lever switch, three color lighting identical to Series 25000, but utilizes a larger, contoured lever and larger, factory installed color filters. Available in 2 or 3 position, locking and non-locking types. Mounts on $\frac{3}{4}$ " centers, in panels up to $\frac{3}{8}$ " thick. Depth behind panel $2\frac{3}{4}$ ". Nickel silver springs with fine silver contacts rated at 3 amps, 300 watts, max., A.C., non-inductive load. On standard 2 position type AMBER lights in the "NEUTRAL" position; GREEN lights in the "DOWN" position. On 3 position types, RED lights in the "UP" position, AMBER in "NEUTRAL" position and GREEN in the "DOWN" position. Supplied with a 6 V lamp. † n. o. center position off. *Add suffix "L" to part number to indicate locking type.

TWO POSITION TYPES

Part No. Non-locking*	Action	Schematic Circuit Pos. 1 Pos. 2	U.S.A. List Price
27206	D.P.D.T.	2-C	\$6.50
27212	4 P.D.T.	4-C	8.00

THREE POSITION TYPES

27306	S.P.D.T. ea. sec.	1-C 1-C	6.50
27307	S.P.D.T. n.o. ea. sec.	1-C† 1-C†	6.65
27312	D.P.D.T. ea. sec.	2-C 2-C	8.00

LAMPS FOR "LEVER-LITE" SWITCHES

Lamps are mounted in a "snap-out" frame assembly. A 6V lamp is furnished with each of the above listed switches. Specify the following part numbers when ordering replacement lamps:

Part No.	Voltage	Base	Ind. No.	U.S.A. List Price
P-1217	6V	Screw	1768	\$1.20
P-1218	28V	Screw	Hudson 369	2.00

ESCUTCHEON PLATES FOR "LEVER-LITE" SWITCHES

For easy and convenient mounting of Series 25000 and 27000 Switches. Satin black finish. Eliminates punching rectangular hole in mounting panel. Part No. 531 for Series 25000, complete with two No. 3-48 black machine screws. Part No. 532 for Series 27000, complete with two No. 2-56 machine screws.

Switchcraft Part No. 531 U.S.A. List Price \$0.15
Switchcraft Part No. 532 U.S.A. List Price 0.25

AMBIENT LIGHT SHIELD

For use where "LEVER-LITE" Series 27000 switches are mounted on minimum centers. Shield gives positive separation of lighting between switches. Shield is placed between panel and switch, held in place by mounting screws. Two shields can be used per switch if desired.

Switchcraft Part No. P-1864 U.S.A. List. Price \$0.10

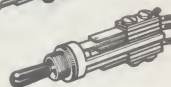
Lever Switches

"LEV-R" SWITCHES

3000



13000



Small lever action switches in two and three position types, locking and non-locking action. Requires half the space usually needed for a lever switch; frame bushing and shaft nickel plated brass. Supplied with locknut and screw-on black knob. Fine silver contacts rated at 3 amps, 300 watts, max. A.C. non-inductive load. Non-locking types have spring return. Series 3000 mounts in panels up to $\frac{3}{8}$ " thick; Series 13000 mounts in panels up to $\frac{1}{4}$ " thick. Both Series are $\frac{5}{8}$ " wide; requires $2\frac{1}{4}$ " behind panel; mounts in single $\frac{1}{2}$ " dia. hole. †n.o. center position off. ‡Inter-communications "Talk-Listen" switches, lever locks on one side of neutral and operates non-locking on the other side. *Add suffix letter "L" to Part No. to indicate locking type.

SERIES 3000 TWO POSITION TYPES

Part No. Non-Locking*	Action	Schematic Circuit Pos. 1 Pos. 2	U.S.A. List Price
3001	S.P.S.T. n.o.	1-A	\$2.00
3002	S.P.S.T. n.c.	1-B	2.00
3003	S.P.D.T.	1-C	2.35
3003D	S.P.D.T.	1-D	2.50
3004	D.P.S.T. n.o.	2-A	2.60
3005	D.P.S.T. n.c.	2-B	2.60
3006	D.P.D.T.	2-C	2.85
3006D	D.P.D.T.	2-D	3.00
3009	3 P.D.T.	3-C	3.65

THREE POSITION TYPES

3033	S.P.D.T. n.o.	1-C†	\$2.60
3034	S.P.S.T. n.o. Ea. Sec.	1-A 1-A	2.70
3035	S.P.S.T. n.c. Ea. Sec.	1-B 1-B	2.70
3036	S.P.D.T. Ea. Sec.	1-C 1-C	3.00
3036D	S.P.D.T. Ea. Sec.	1-D 1-D	3.35
3037	S.P.D.T. n.o. Ea. Sec.	1-C† 1-C†	3.05
30312	D.P.D.T. Ea. Sec.	2-C 2-C	4.00
30313	D.P.D.T. n.o. Ea. Sec.	2-C† 2-C†	4.00

SERIES 13000 TWO POSITION TYPES

13001	S.P.S.T. n.o.	1-A	\$2.20
13002	S.P.S.T. n.c.	1-B	2.20
13003	S.P.D.T.	1-C	2.50
13003D	S.P.D.T.	1-D	2.60
13004	D.P.S.T. n.o.	2-A	2.75
13005	D.P.S.T. n.c.	2-B	2.75
13006	D.P.D.T.	2-C	2.85
13006D	D.P.D.T.	2-D	3.00
13009	3 P.D.T.	3-C	4.00

THREE POSITION TYPES

13033	S.P.D.T. n.o.	1-C†	\$2.75
13034	S.P.S.T. n.o. Ea. Sec.	1-A 1-A	2.85
13035	S.P.S.T. n.c. Ea. Sec.	1-B 1-B	2.85
13036	S.P.D.T. Ea. Sec.	1-C 1-C	3.35
13036D	S.P.D.T. Ea. Sec.	1-D 1-D	3.50
13037	S.P.D.T. n.o. Ea. Sec.	1-C† 1-C†	3.35
130312	D.P.D.T. Ea. Sec.	2-C 2-C	4.25
130313	D.P.D.T. n.o. Ea. Sec.	2-C† 2-C†	4.25

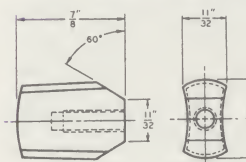
INTER-COM SWITCHES† SERIES 3000

Part No. Non-Locking*	Action	Schematic Circuit Pos. 1 Pos. 2	U.S.A. List Price
3033T	S.P.D.T. n.o.	1-C†	\$2.60
3037T	S.P.D.T. n.o. Ea. Sec.	1-C† 1-C†	3.05

SERIES 13000

13033T	S.P.D.T. n.o.	1-C†	\$2.75
13037T	S.P.D.T. n.o. Ea. Sec.	1-C† 1-C†	3.35

CONTOUR KNOBS FOR LEVER SWITCHES



Attractive contour knobs designed for today's modern equipment. Series M-1177 knobs, 8-32" tapped hole for use with "LEV-R" switches Series 3000, 12000 and 13000. Series M-1178 knobs, 6-32" tapped hole for use with "TEL-EVER" switches Series 6000 and 16000.

Part No. Series 1177	Part No. Series 1178	Color	U.S.A. List Price Per Pkg. of 10
M-1177-1	M-1178-1	Red	\$3.50
M-1177-2	M-1178-2	Black	3.50
M-1177-15	M-1178-15	White	3.50

SPECIAL WRENCHES



Special Switchcraft wrenches designed to assemble knurled locknuts normally furnished with lever and button switches and jacks. A-1070 wrench fits $1\frac{1}{2}$ "-32 locknuts; A-1071 for use with $\frac{1}{4}$ "-32 knurled locknuts.

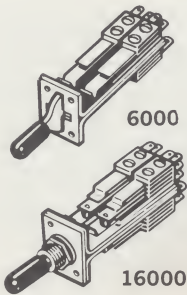
Part No. A-1070 U.S.A. List Price \$7.50
Part No. A-1071 U.S.A. List Price 7.50

FOR DETAILED SPECIFICATIONS ON THE ABOVE SWITCHCRAFT PRODUCTS CIRCLE
CATALOG NOS. S-302a, S-307, S-309, H-602 ON THE ATTACHED POSTAL CARD.

Lever Switches

SWITCHCRAFT
INC.

"TELEVER" SWITCHES



Series 6000 and 16000. Rugged telephone type lever switches featuring "T-Beam" frame construction which results in a relatively light construction with sturdiness of a structural "T-Beam". Available in two and three positions, locking and non-locking types. Nylon rollers on the lever actuate the special nickel silver springs, providing smooth action; assures long dependable spring life. Welded cross bar palladium contacts are standard, rated at 3 amps, 300 watts max., A.C., non-inductive load. Series 6000 mounts with four No. 3-48 machine screws. Mounting centers $1\frac{1}{2}$ " x $1\frac{1}{2}$ ", mounts in panels up to $\frac{1}{4}$ " thick. Series 16000 features single hole mounting; $1\frac{1}{2}$ "-32 threaded bushing. Mounts in $\frac{1}{2}$ " dia. hole in panels up to $\frac{1}{4}$ " thick. Part No. 545, "Stop Plate" provides positive "stops" for two position action. Part No. 540, "Stop Plate" provides non-locking or momentary action. The "Stop Plates" can be changed in the field. Both Series switches supplied with black insulated knob. All have tinned solder lug terminals. *Add suffix letter "L" to Part No. to indicate locking type. Series 16000 non-locking type can be converted to locking type by removing "Stop Plate".

SERIES 6000 TWO POSITION TYPES

Part No. Non-Locking*	Action	Schematic Circuit Pos. 1 Pos. 2	U.S.A. List Price
6006	D.P.D.T.	2-C	\$5.00
6006D	D.P.D.T.	2-D	5.60
6008	4 P.S.T. n.o.	4-A	5.60
6009	3 P.D.T.	3-C	6.00
60012	4 P.D.T.	4-C	6.80
60012D	4 P.D.T.	4-D	7.50
60024	8 P.D.T.	8-C	10.00

THREE POSITION TYPES

6036	S.P.D.T. Ea. Sec.	1-C	1-C	\$5.00
6036D	S.P.D.T. Ea. Sec.	1-D	1-D	5.60
6038	D.P.S.T. n.o. Ea. Sec.	2-A	2-A	5.60
60312	D.P.D.T. Ea. Sec.	2-C	2-C	6.80
60312D	D.P.D.T. Ea. Sec.	2-D	2-D	7.50
60316	4 P.S.T. n.o. Ea. Sec.	4-A	4-A	8.80
60324	4 P.D.T. Ea. Sec.	4-C	4-C	10.00

SERIES 16000 TWO POSITION TYPES

16006	D.P.D.T.	2-C	\$5.00
16006D	D.P.D.T.	2-D	5.60
16008	4 P.S.T. n.o.	4-A	5.60
16009	3 P.D.T.	3-C	6.00
160012	4 P.D.T.	4-C	6.80
160012D	4 P.D.T.	4-D	7.50
160024	8 P.D.T.	8-C	10.00

THREE POSITION TYPES

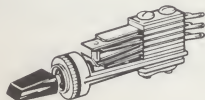
16036	S.P.D.T. Ea. Sec.	1-C	1-C	\$5.00
16036D	S.P.D.T. Ea. Sec.	1-D	1-D	5.60
16038	D.P.S.T. n.o. Ea. Sec.	2-A	2-A	5.60
160312	D.P.D.T. Ea. Sec.	2-C	2-C	6.80
160312D	D.P.D.T. Ea. Sec.	2-D	2-D	7.50
160316	4 P.S.T. n.o. Ea. Sec.	4-A	4-A	8.80
160324	4 P.D.T. Ea. Sec.	4-C	4-C	10.00

Part No. 530 Escutcheon Plate. For Series 6000 Telever switches with 4 mounting screws. U.S.A. List Price \$0.60

Part No. 540 Stop Plate. For Series 16000 Telever switches. To convert from locking to non-locking action. Includes two mounting screws. U.S.A. List Price \$0.25

Part No. 545 Stop Plate. For Series 16000 Telever switches. To convert from 3-position to 2-position. Includes two mounting screws. U.S.A. List Price \$0.25

"LEV-R" SWITCHES



"LEV-R Switches." Series 28000. Compact, lever action switch in two and three position, locking and non-locking types. Smooth, easier lever action assured with special nylon roller. Supplied with locknut, non-turn ring (slips over slotted bushing

to prevent switch from turning in mounting hole), and a black knob which is molded directly to the lever. Eliminates loose or lost knobs. Fine silver contacts rated at 3 amps, 300 watts, max., A.C., non-inductive load. Mounts on $\frac{3}{4}$ " centers in panels up to $\frac{1}{4}$ " thick. Requires only one $1\frac{1}{2}$ " dia. mounting hole for bushing and one $\frac{1}{2}$ " dia. hole for non-turn device; depth behind panel, $2\frac{1}{4}$ ". *Add suffix letter "L" to Part No. to indicate locking type. †Center position open (OFF).

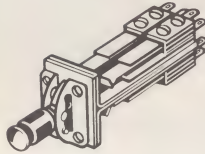
TWO POSITION TYPES

Part No. Non-Locking*	Action	Schematic Circuit Pos. 1 Pos. 2	U.S.A. List Price
28201	S.P.S.T. n.o.	1-A	\$2.80
28203	S.P.D.T.	1-C	3.25
28204	D.P.S.T. n.o.	2-A	3.50
28206	D.P.D.T.	2-C	2.75

THREE POSITION TYPES

28304	S.P.S.T. n.o. ea. sec.	1-A	1-A	\$3.60
28306	S.P.D.T. ea. sec.	1-C	1-C	3.90
28307	S.P.D.T. n.o. ea. sec.	1-C†	1-C†	3.95
28312	D.P.D.T. ea. sec.	2-C	2-C	4.75

SERIES 26000 "LEVER-LOCK" SWITCHES



Rugged telephone-type lever switches. "Lever-Lock" feature guards against accidental switching due to shock, vibrations, operator fatigue, or unintended operation. Ideal for mobile communication equipment. Index bracket and release plunger "locks" lever in any position. Turning actuator knob to extreme left actuator will be permanently locked. To unlock, turn knob to the right. Pressing release plunger frees actuator from index bracket and allows actuator to be moved to another switching position. Welded cross bar palladium contacts rated

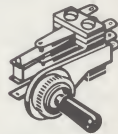
at 3 amps, 300 watts max., A.C., non-inductive load. Mounts with four No. 3-48 screws in panels up to $\frac{3}{16}$ " thick. Requires $3\frac{1}{2}$ " depth behind panel.

TWO POSITION TYPES

Part No. Locking Type Only	Action	Schematic Circuits Pos. 1 Pos. 2	U.S.A. List Price
26206L	D.P.D.T.	2-C	\$8.50
26208L	4 P.S.T. n.o.	4-A	9.10
26212L	4 P.D.T.	4-C	10.30
26212DL	4 P.D.T.	4-D	11.00

THREE POSITION TYPES

26306L	S.P.D.T. Ea. Sec.	1-C	1-C	\$8.50
26308L	D.P.S.T. n.o. Ea. Sec.	2-A	2-A	9.10
26312L	D.P.D.T. Ea. Sec.	2-C	2-C	10.30
26312DL	D.P.D.T. Ea. Sec.	2-D	2-D	11.00
26316L	4 P.S.T. n.o. Ea. Sec.	4-A	4-A	12.30
26324L	4 P.D.T. Ea. Sec.	4-C	4-C	13.50



"LEV-R" SWITCHES, SERIES 12000

Small right-angle action switches requiring minimum of depth behind panel. Available in two and three position, locking and non-locking types. Long leaf-type springs insure long switch life. Fine silver contacts rated at 3 amps, 300 watts max., A.C., non-inductive load. Requires only $\frac{1}{8}$ " depth behind panel; single $\frac{1}{2}$ " dia. mounting hole; mounts in panels up to $\frac{3}{16}$ " thick. Supplied with nickel plated locknut and removable black plastic knob. †n.o. center position off. *Add suffix letter "L" to Part No. to indicate locking type.

TWO POSITION TYPES

Part No. Non-Locking*	Action	Schematic Circuit Pos. 1 Pos. 2	U.S.A. List Price
12001	S.P.S.T. n.o.	1-A	\$1.80
12002	S.P.S.T. n.c.	1-B	1.80
12003	S.P.D.T.	1-C	2.10
12003D	S.P.D.T.	1-D	2.35
12004	D.P.S.T. n.o.	2-A	2.35
12005	D.P.S.T. n.c.	2-B	2.35
12006	D.P.D.T.	2-C	2.60
12006D	D.P.D.T.	2-D	2.85

THREE POSITION TYPES

12033	S.P.D.T. n.o.	1-C†	\$2.35
12034	S.P.S.T. n.o. Ea. Sec.	1-A	2.45
12035	S.P.S.T. n.c. Ea. Sec.	1-B	2.45
12036	S.P.D.T. Ea. Sec.	1-C	2.75
12036D	S.P.D.T. Ea. Sec.	1-D	2.95
12037	S.P.D.T. Ea. Sec.	1-C†	2.85

THREE POSITION TYPES

LOCKING ONE SIDE—NON-LOCKING OTHER SIDE

12033T	S.P.D.T. n.o.	1-C†	\$2.35
12037T	S.P.D.T. Ea. Sec.	1-C†	2.85

NEW



"BOX SWITCH"

Series BX. Miniature, momentary action, push-button switch offers broad switching capabilities in minimum panel space. $1\frac{1}{16}$ " square switch requires $\frac{5}{16}$ " min. to $1\frac{1}{4}$ " max. depth behind panel. Molded plastic body protects against damaging dust and dirt and prevents bending or disfiguring of contacts caused by excessive handling. Attractive bezel frames pushbutton and acts as built-in escutcheon plate. Unique "Adjusto-Clips" provide snap-in, front of panel, mounting in panels from $\frac{3}{4}$ " to $1\frac{1}{4}$ " thick in .615" sq. holes. Red, black, green, or white pushbuttons. $\frac{1}{64}$ " button stroke. Integral slide contacts of special spring tempered phosphor bronze, silver plated, rated at: 250 ma., 30 watts max., A.C. non-inductive load. Evenly spaced solder lug terminals are clearly identified for ease of wiring.

Part Nos.				Action	Schematic Circuit	U.S.A. List Price
Red Button	Black Button	Green Button	White Button			
BX-01-1	BX-02-1	BX-03-1	BX-05-1	S.P.S.T. n.o.	1-A	\$3.25
BX-01-3	BX-02-3	BX-03-3	BX-05-3	S.P.D.T.	1-C	\$3.40
BX-01-6	BX-02-6	BX-03-6	BX-05-6	D.P.D.T.	2-C	\$3.75
BX-01-10	BX-02-10	BX-03-10	BX-05-10	D.P.D.T.-D.P.S.T. n.o.	2-C & 2-A	\$4.25

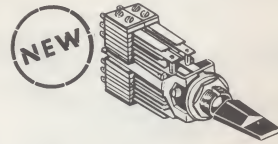
BASIC SCHEMATIC CIRCUITS

Switch circuitry can be described as combinations of basic schematic circuits as shown below. N.O. means normally open; N.C. means normally closed.



FOR DETAILED SPECIFICATIONS ON THE ABOVE SWITCHCRAFT PRODUCTS CIRCLE CATALOG NOS. S-302a, S-307, S-309 AND 169 ON THE ATTACHED POSTAL CARD.

"LT SWITCH"



Series 41000. Smallest, high-quality, telephone type lever switch available. Two or three position types with positive locking and/or non-locking action. Special damping block guards against transient leaf bounce. "Can't-Cheat" detent guide prevents accidental actuator by-pass of switching positions. Switch has rigid "U"-shaped, twin girder frame. Its parallel steel members terminate in an interlocked box where spring combinations are mounted. The special long life, nickel-silver springs can be individually fastened to any one of the frame's four switch stacks mounting positions. Welded cross bar palladium contacts rated at 3 amps, 200 watts max., A.C., non-inductive load are standard. Series 41000 mounts on $\frac{3}{16}$ " centers in a $\frac{1}{4}$ " dia. hole in panels up to $\frac{1}{4}$ " thick. Requires only $2\frac{1}{8}$ " depth behind panel. The bushing includes a keyway to accept the non-turn ring which prevents switch turning or twisting in panel. *Add suffix "L" to Part No. to indicate locking type.

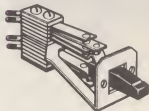
SERIES 41000

TWO POSITION TYPES

Part No. Non-Locking*	Action	Schematic Circuit Pos. 1 Pos. 2	U.S.A. List Price
41203	S.P.D.T.	1-C	\$4.00
41206	D.P.D.T.	2-C	5.00
41208	4 P.S.T. n.o.	4-A	5.50
41212	4 P.S.T.	4-C	6.75

THREE POSITION TYPES

41306	S.P.D.T. Ea. Sec.	1-C 1-C	\$5.00
41308	D.P.S.T. n.o. Ea. Sec.	2-A 2-A	5.50
41312	D.P.D.T. Ea. Sec.	2-C 2-C	6.75
41324	4 P.D.T. Ea. Sec.	4-C 4-C	10.00



"LK" LITTEL-KEY SWITCHES

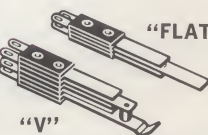
Series 23000. Short frame lever-type switches available in 2 or 3 positions, locking or non-locking types. Ideal for applications where panel mounting space and depth behind panel is at a premium. Fine silver contacts, rated at 3 amps, 300 watts max., A.C., non-inductive load. Frame has 2 tapped No. 3-48 holes for easy mounting. Mounts in panels up to $\frac{1}{4}$ " thick. Depth behind panel only $2\frac{1}{8}$ ". *Add suffix letter "L" to Part No. to indicate locking type.

TWO POSITION TYPES

Part No. Non-Locking*	Action	Schematic Circuit Pos. 1 Pos. 2	U.S.A. List Price
23201	S.P.S.T. n.o.	1-A	\$1.75
23203	S.P.D.T.	1-C	2.10
23206	D.P.D.T.	2-C	2.40

THREE POSITION TYPE

23304	S.P.S.T. n.o. Ea. Sec.	1-A 1-A	\$2.25
23306	S.P.D.T. Ea. Sec.	1-C 1-C	2.40
23308	D.P.S.T. n.o. Ea. Sec.	2-A 2-A	2.60



"FLAT"

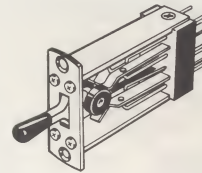
General purpose stack switch assemblies made from a pile-up of various actuator springs, contact springs and lifters. These stack switch assemblies can be used on manually operated devices where switching is operated by cams, levers, push buttons, and other mechanical devices. General purpose stack switches are available with a "Flat" or "V" actuator spring. Fine silver or palladium cross bar welded contacts are standard, rated at 3 amps., 300 watts max., A.C., non-inductive load. Supplied with pressure plate and two No. 5-40 screws; mount on $\frac{3}{16}$ " centers. Height of stack depends on switching circuit; 1-B circuit $2\frac{1}{4}$ " H., min.; 2-C circuit $4\frac{5}{16}$ " H., max.

FLAT ACTUATOR SPRING

Part No.	Contact Material	Action	Schematic Circuit	U.S.A. List Price
AA01AA	Silver	S.P.S.T. n.o.	1-A	\$0.80
AA01AB	Palladium	S.P.S.T. n.o.	1-A	.90
AA02AA	Silver	S.P.S.T. n.c.	1-B	.80
AA02AB	Palladium	S.P.S.T. n.c.	1-B	.90
AA03AA	Silver	S.P.D.T.	1-C	1.00
AA03AB	Palladium	S.P.D.T.	1-C	1.20
AA06AA	Silver	D.P.D.T.	2-C	1.45
AA06AB	Palladium	D.P.D.T.	2-C	1.75

"V" FORMED ACTUATOR SPRING

AA01BA	Silver	S.P.S.T. n.o.	1-A	\$0.90
AA01BB	Palladium	S.P.S.T. n.o.	1-A	1.00
AA02BA	Silver	S.P.S.T. n.c.	1-B	.90
AA02BB	Palladium	S.P.S.T. n.c.	1-B	1.00
AA03BA	Silver	S.P.D.T.	1-C	1.10
AA03BB	Palladium	S.P.D.T.	1-C	1.30
AA06BA	Silver	D.P.D.T.	2-C	1.65
AA06BB	Palladium	D.P.D.T.	2-C	1.85



"LO-CAP" SWITCHES

Series 10000. Low-capacity lever actuated switches, previously referred to as Federal Anti-Capacity switches. Specially designed flat actuator springs and round contact springs are wide spaced in a large molded insulating block.

This construction eliminates the build-up of induced alternating current between springs. Rugged "U" shaped aluminum frame. Roller actuation for easy lever operation. Available in 2 and 3 position models, locking and non-locking types. Actuator springs have fine silver contacts rated at 1 amp, 100 watts, max., A.C., non-inductive load. Supplied with polished chrome escutcheon plate. Mounts with two No. 6-32 flat head screws (not supplied). Mounting centers $1\frac{1}{16}$ ". Depth behind panel $3\frac{1}{16}$ ". f.n.o. center position off.

*Add suffix letter "L" to Part No. to indicate locking type.

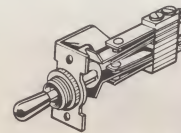
TWO POSITION TYPES

Part No. Non-Locking*	Old Federal No.**	Action	Schematic Circuit Pos. 1 Pos. 2	U.S.A. List Price
10204	1427	D.P.S.T.n.o.	2-A	\$ 6.80
10205	1426	D.P.S.T.n.o.	2-B	6.80
10206	—	D.P.D.T.	2-C	7.00

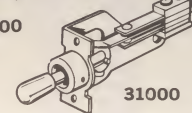
THREE POSITION TYPES

10306	—	S.P.D.T.Ea.Sec.	1-C 1-C	7.00
10307	1425	S.P.D.T.n.o.Ea.Sec.	1-C† 1-C†	7.00
10312	—	D.P.D.T.Ea.Sec.	2-C 2-C	7.50
10313	1424	D.P.D.T.n.o.Ea.Sec.	2-C† 2-C†	7.50
10324	—	4P.D.T.Ea.Sec.	4-C 4-C	16.50
10325	12494	4P.D.T.n.o.Ea.Sec.	4-C† 4-C†	16.50

**Old Federal Part No. refer to locking type switches only.



29000



31000

"FEATHER LEVER" SWITCHES

Miniature lever switches, light-weight, compact, mount on $\frac{1}{16}$ " centers. Available in 2 and 3 position, locking and non-locking types. Actuator designed with nylon roller for smoother, easy lever operation over entire life of switch. Rugged steel frame withstands rough usage, shock and vibration. Nickel silver springs with fine silver contacts, rated at 2 amperes, 200 watts, max., A.C., non-inductive load. Supplied with black plastic push-on knob. Other push-on knobs, available in 10 colors. See listing below. Series 29000, with bushing, mounts in $\frac{5}{16}$ " O.D. panel hole. Supplied with locknut. Series 31000, mounts with 2 No. 2-56 machine screws. Both Series supplied with black push-on knob. Require only $1\frac{1}{8}$ " depth behind panel, mount in panels up to $\frac{1}{4}$ " thick. f.n.o., center position off. †Inter-communications "Talk-Listen" switches, lever locks on one side of neutral and operates non-locking on the other side. *Add suffix letter "L" to Part No. to indicate locking type.

SERIES 29000, 31000 TWO POSITION TYPES

Part No. Non-Locking*	Part No.	Action	Schematic Circuit Pos. 1 Pos. 2	U.S.A. List Price
29201	31201	S.P.S.T. n.o.	1-A	\$1.95
29203	31203	S.P.D.T.	1-C	2.25
29204	31204	D.P.S.T. n.o.	2-A	2.50
29206	31206	D.P.D.T.	2-C	2.75

THREE POSITION TYPES

29303	31303	S.P.D.T. n.o.	1-C†	\$2.50
29304	31304	S.P.S.T. n.o. ea. sec.	1-A 1-A	2.60
29306	31306	S.P.D.T. ea. sec.	1-C 1-C	2.90
29307	31307	S.P.D.T. n.o. ea. sec.	1-C† 1-C†	2.95
29312	31312	D.P.D.T. ea. sec.	2-C 2-C	3.75

INTER-COMM SWITCHES

29303T	31303T	S.P.D.T. n.o.	1-C†	\$2.50
29307T	31307T	S.P.D.T. n.o. ea. sec.	1-C 1-C	2.95



PUSH-ON COLOR KNOBS

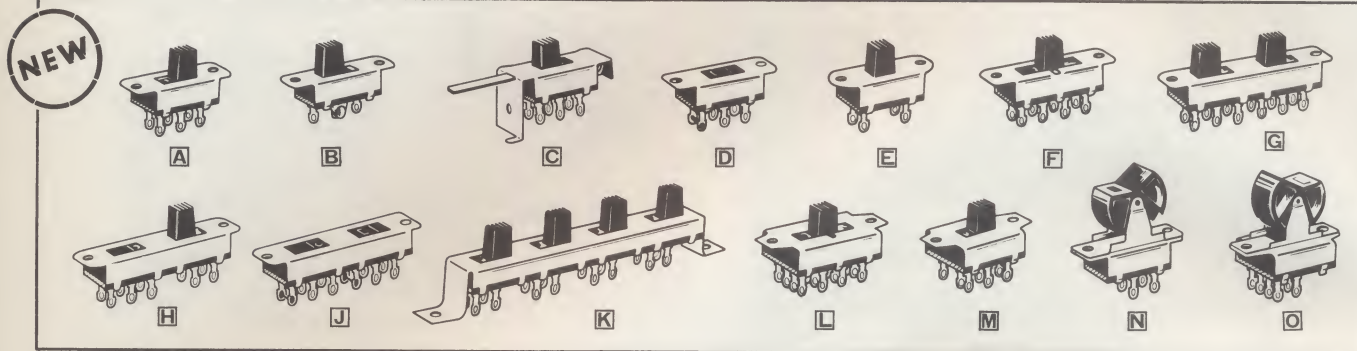
Kit of molded plastic knobs. Available in 10 colors. For "Feather-Lever" Switches, Series 29000, 31000. Knobs can be changed quickly—simply pull off present knob and push-on new one. For permanence, use plastic cement.

Part No.	Color	Part No.	Color	U.S.A. List Price Per Pkg. of 10
K-108	One of ea. color	K-114	Brown	\$0.80
K-109	Red	K-115	Orange	0.80
K-110	Black	K-116	Yellow	0.80
K-111	Green	K-117	Ivory	0.80
K-112	Blue	K-118	Gray	0.80
K-113	White	—	—	0.80

FOR DETAILED SPECIFICATIONS ON THE ABOVE SWITCHCRAFT PRODUCTS CIRCLE CATALOG NOS. 164, S-302a, S-309 AND S-310 ON THE ATTACHED POSTAL CARD.

"double-wipe" Slide Switches

SWITCHCRAFT
INC.



New low-cost, precision "double-wipe" slide switches. Switches use special U-shaped, bifurcated sliders to assure continuous wiping action. Contacts rated at 0.5 amp. D.C., 3 amps. A.C., 125 volts non-inductive load. Standard solder lug terminals have a $\frac{1}{16}$ " dia. center hole and wrap-around notch for wiring ease. Most switches furnished with black $\frac{1}{4}$ " knob and $\frac{1}{16}$ " ($\frac{3}{16}$ ") dia. mounting holes. Nos. 46206LF, 46256LF and 47227LF flush screwdriver actuated knob. All slide and rocker switches are U.L. approved unless otherwise noted. See Page 15 for slide switch contact arrangement.

SERIES 46000 2 AND 3 POSITION GENERAL PURPOSE TYPE

Rated 0.5 amp. D.C., 3 amps. A.C., 125 volts non-inductive load; except shorting types 46203LS and 46206LS, rated 0.5 amp., 125 volts, D.C. only. No. 46206MP 2 position momentary switch with $\frac{1}{8}$ " plunger and extruded and tapped 6-32 mounting holes. Nos. 46206LF, 46256LF flush, screwdriver slotted knob. No. 46204MB pushbutton actuated switch with $\frac{1}{16}$ " knob.

Part No.	Action	Schematic	Fig.	U.S.A. List Price
46202L	SPST Locking	II	A	
46202M	SPST Momentary	I	B	
46203L	SPDT Locking	III	A	
46203LS	SPDT Locking	III	A	
46203M	SPDT Momentary	III	B	
46204L	DPST Locking	2-II	A	
46206L	DPDT Locking	2-III	A	
46206LS	DPDT Locking	2-III	A	
46206M	DPDT Momentary	2-III	B	
46206MP	DPDT Momentary	2-III	C	
46206LF	DPDT Locking	2-III	D	
46256LF	DPDT Locking	V	D	
46204MB*	DPST Momentary	IV	E	

Three position slide switches with positive center detent action. Locking in all positions.

46311L	SPTT Locking	VI	F	
46313L	DPTT Locking	2-VI	F	

SERIES 47000 TANDEM SLIDE SWITCHES

Compact, two-gang, slide switches. Series 47000L two independent knobs; Series 47000LC single knob construction with coupling link between knobs. One knob $\frac{1}{4}$ " other flush screwdriver operated. No. 47227LF two knobs flush with switch housing, one knob screwdriver actuated. Knobs are coupled. Shorting bar each section. Rated at 0.5 amp. D.C., 3 amps. A.C., 125 volts non-inductive load.

47202L	SPST-SPST Locking	II II	G	
47202LC	SPST-SPST Locking		H	
47203L	SPDT-SPDT Locking	III III	G	
47203LC	SPDT-SPDT Locking		H	
47204L	DPST-DPST Locking	2-II 2-II	G	
47204LC	DPST-DPST Locking		H	
47206L	DPDT-DPDT Locking	2-III 2-III	G	
47206LC	DPDT-DPDT Locking		H	
47215L	SPST-SPDT Locking	II III	G	
47215LC	SPST-SPDT Locking		H	
47217L	SPST-DPST Locking	II 2-II	G	
47217LC	SPST-DPST Locking		H	
47219L	SPST-DPDT Locking	II 2-III	G	
47219LC	SPST-DPDT Locking		H	
47221L	SPDT-DPST Locking	III 2-II	G	
47221LC	SPDT-DPST Locking		H	
47223L	SPDT-DPDT Locking	III 2-III	G	
47223LC	SPDT-DPDT Locking		H	
47225L	DPST-DPDT Locking	2-II 2-III	G	
47225LC	DPST-DPDT Locking		H	
47227LF	DPDT-DPDT Locking	V V	J	

*Not submitted for U.L. approval.

SERIES 48000 QUADRUM SLIDE SWITCHES

Four-gang slide switches with independent knob operation. $\frac{1}{4}$ " knob height and .153 mounting holes.

Part No.	Action	Schematic	Fig.	U.S.A. List Price
48208L*	4-SPST Locking	4-II	K	
48212L*	4-SPDT Locking	4-III	K	
48214L	4-DPST	8-II	K	
48224L*	4-DPDT Locking	8-III	K	

SERIES 49000 3 POSITION GENERAL PURPOSE TYPE

Large, heavy duty 3 and 4 pole slide switches. Knob height $\frac{1}{2}$ ". Mounting holes $\frac{3}{16}$ ". Series 49000L, non-shorting; Series 49000LS, with shorting contacts.

49309L	3PDT Locking	3-III	L	
49309LS	3PDT Locking			
49329L	3PTT Locking	3-VI	L	
49329LS	3PTT Locking			
49312L	4PDT Locking	4-III	L	
49312LS	4PDT Locking			
49331L	4PTT Locking	4-VI	L	
49331LS	4PTT Locking			

SERIES 50000 2 POSITION GENERAL PURPOSE TYPE

Series 50000L and M, non-shorting; Series 50000LS and MS; with shorting contacts.

50207L	3PST Locking	3-II	M	
50207M	3PST Momentary	3-II	M	
50208L	4PST Locking	4-II	M	
50209L	3PDT Locking	3-III	M	
50209LS	3PDT Locking			
50209M	3PDT Momentary	3-III	M	
50209MS	3PDT Momentary			
50212L	4PDT Locking	4-III	M	
50212LS	4PDT Locking			

SERIES 51000 2 POSITION ROCKER SWITCHES

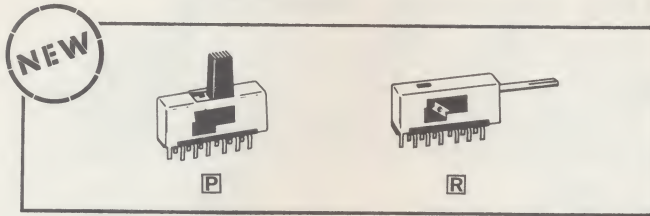
Compact rocker switches offer same quality and dependability as standard slide switches. Rugged rocker bracket is precision welded to standard slide switch housing. Rocket pivots between bracket members to allow free actuation of switch mechanism. Black rocker.

51202L	SPST Locking	II	N	
51203L	SPDT Locking	III	N	
51204L	DPST Locking	2-II	N	
51206L	DPDT Locking	2-III	N	

SERIES 52000 2 POSITION ROCKER SWITCHES

Larger than Series 51000, offering 3 and 4 poles of switching. Series 52000L, non-shorting; Series 52000LS with shorting contacts.

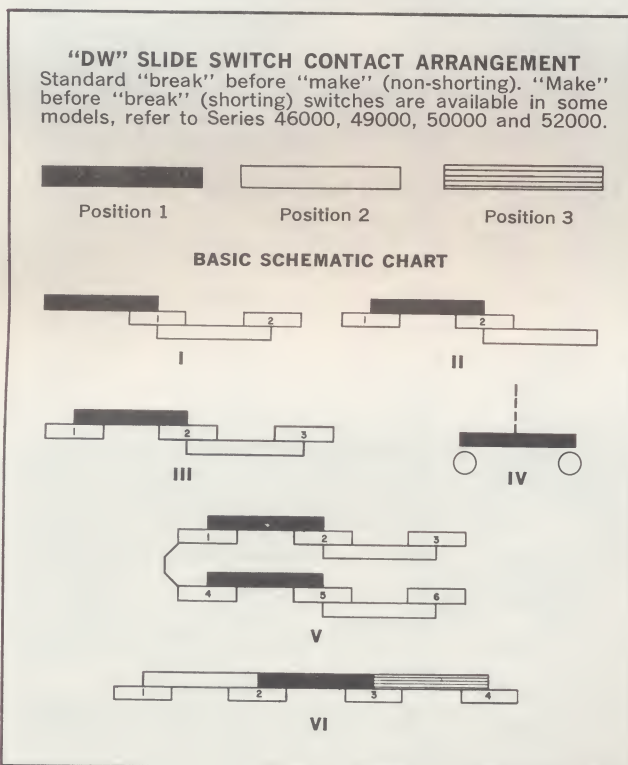
52207L	3PST Locking	3-II	O	
52208L	4PST Locking	4-II	O	
52209L	3PDT Locking	3-III	O	
52209LS	3PDT Locking			
52212L	4PDT Locking	4-III	O	
52212LS	4PDT Locking			



SERIES 53000 2 POSITION MINIATURE SLIDE SWITCHES
Printed circuit terminals snap easily in P.C. boards. Nos. 53206L, 53212L have $\frac{1}{8}$ " knobs. No. 53212P is constructed with push-to-lock, push-to-release plunger. No. 53212MP, a momentary plunger.

Part No.	Action	Schematic	Fig.	U.S.A. List Price
53206L*	DPDT Locking	2-III	P	
53212L*	4PDT Locking	4-III	P	
53212LP*	4PDT Push-to-lock Push-to-release	4-III	R	
53212MP*	4PDT Momentary	4-III	R	

*Not submitted for U.L. approval.



"BOX SWITCH"
Series BX. Miniature, momentary action, pushbutton switch offers broad switching capabilities in minimum panel space. $\frac{11}{16}$ " square switch requires $\frac{5}{16}$ " min. to $\frac{1}{4}$ " max. depth behind panel. Molded plastic body protects against damaging dust and dirt and prevents bending or disfiguring of contacts caused by excessive handling. Attractive bezel frames pushbutton and acts as built-in escutcheon plate. Unique "Adjusto-Clips" provide snap-in, front of panel, mounting in panels from $\frac{3}{16}$ " to $\frac{1}{4}$ " thick in .615" sq. holes. Red, black, green, or white pushbuttons. $\frac{1}{16}$ " button stroke. Integral slide contacts of special spring tempered phosphor bronze, silver plated, rated at: 250 ma., 30 watts max., A.C. non-inductive load. Evenly spaced solder lug terminals are clearly identified for ease of wiring.

Part Nos.				Action	Schematic Circuit	U.S.A. List Price
Red Button	Black Button	Green Button	White Button			
BX-01-1	BX-02-1	BX-03-1	BX-05-1	S.P.S.T. n.o.	1-A	\$3.25
BX-01-3	BX-02-3	BX-03-3	BX-05-3	S.P.D.T.	1-C	\$3.40
BX-01-6	BX-02-6	BX-03-6	BX-05-6	D.P.D.T.	2-C	\$3.75
BX-01-10	BX-02-10	BX-03-10	BX-05-10	D.P.D.T.-D.P.S.T. n.o.	2-C & 2-A	\$4.25



CRADLE SWITCH

High quality Handset Cradle Switch holds W.E. and other standard telephone industry handsets. Sturdy housing is flexible enough to withstand shocks and vibrations. Housing includes Switchcraft's dependable "Hook Switch" (See Hook Switch listing below), with a 4C (4P.D.T.) contact arrangement. Switch has long nickel silver springs with gold alloy contacts rated at 1 amp. 100 watts max., A.C. non-inductive load. Ideal for use in critical low level audio circuits such as in communication and instrumentation applications.

Part No.	Description	U.S.A. List Price
14412G	Handset Cradle Switch. Black housing. 4-C (4P.D.T.) circuit.	\$8.00
14512G	As above, except beige.	8.00
14612G	As above, except white.	8.00



"HOOK SWITCH" SWITCHES

Quality constructed leaf-type switch actuated by a hook (or hanger). Ideal for equipment where it is necessary to actuate a circuit by hanging an accessory on a "hook", as a headset, telephone or microphone. Fine silver contacts, rated at 3 amps, 300 watts max., A.C., non-inductive load. Requires only $\frac{1}{8}$ " depth behind panel.

Part No.	Action	Schematic Circuit	U.S.A. List Price
14004	D.P.S.T. n.o.	2-A	\$2.75
14005	D.P.S.T. n.c.	2-B	2.75
14006	D.P.D.T.	2-C	3.00
14012	4 P.D.T.	4-C	3.85



"RS-SWITCH" SWITCHES

Rugged rotary switches, available in various multiple circuits, two and three position types, locking or non-locking action. Ideal for communication, musical and test equipment applications. Fibre cam actuates long, leaf-type springs resulting in easy action; good wiping action of contacts. Fine silver contacts rated at 3 amps, 300 watts max., AC, non-inductive load. Requires only $\frac{1}{8}$ " depth behind panel, mounts in single $\frac{3}{16}$ " hole in panels up to $\frac{1}{4}$ " thick.

*Add suffix letter "L" to part number to indicate locking type.

TWO POSITION TYPES

Part No. Non-Locking*	Action	Schematic Circuit Pos. 1 Pos. 2	U.S.A. List Price
2001	S.P.S.T. n.o.	1-A	\$1.40
2002	S.P.S.T. n.c.	1-B	1.40
2003	S.P.D.T.	1-C	1.65
2004	D.P.S.T. n.o.	2-A	1.65
2005	D.P.S.T. n.c.	2-B	1.65
2006	D.P.D.T.	2-C	2.15

THREE POSITION TYPES

2034	S.P.S.T. n.o. Ea. Sec.	1-A	1-A	\$1.65
2035	S.P.S.T. n.c. Ea. Sec.	1-B	1-B	1.65
2036	S.P.D.T. Ea. Sec.	1-C	1-C	2.15



STACK SWITCH KITS

Experimental kits of component parts for assembling switch stacks. Designed to speed the assembly of engineering samples in the lab, aid maintenance men in the field and save time in general replacement. Ideal for mechanical engineers and coin machine servicing; used in relays, electronic organs, etc. Each kit consists of 136 springs in different thicknesses, over 152 phenolic spacers and insulators in various sizes, hard-rubber insulating tubing, two sets of stack assembling pins, two roller assemblies, assorted contacts, etc. Kit No. K-119, consisting of "Tini-Stack" components, are miniature variations of standard switch stack springs, spacers, etc. All in compartmented plastic box.

Kit No. K-101. Assorted $\frac{1}{4}$ " and $\frac{3}{16}$ " mtg. center contact springs and associated parts. NET \$11.10

Kit No. K-102. Assorted $\frac{1}{4}$ " mtg. center contact springs and associated parts. NET 11.10

Kit No. K-103. Assorted $\frac{3}{16}$ " mtg. center contact springs and associated parts. NET 11.10

Kit No. K-119. "Tini-Stack". Assorted $3/16$ " mtg. center contact springs and associated parts. NET 11.10

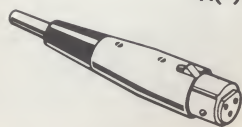
FOR DETAILED SPECIFICATIONS ON THE ABOVE SWITCHCRAFT PRODUCTS CIRCLE CATALOG NOS. S-330, 161, 169, S-303 AND S-310 ON THE ATTACHED POSTAL CARD.



AUDIO CONNECTORS WITH COMPLETE GROUNDING PROVISIONS!

Switchcraft's "Quick-Ground" connectors feature a separate "Ground-Terminal" electrically integral with the connector shell. Ground continuity between mating plugs automatically accomplished through the exclusive "Ground Contactors." Possible loss of insert screw is eliminated by new "Captive Design" Insert Screw. Socket and pin assemblies utilize "wedge-action" to insure firm, reliable positioning in connector shell. Q-G* Series 3 and 4-contact audio connectors, offer 4 and 5-contact versatility when "Ground Terminal" is utilized. Can be used interchangeably with Cannon type XLR-3, XLR-4 and Amphenol type 91-850 Series. *Number of insert contacts or pins must be specified to complete Part Number.

A(*)F CORD PLUGS



Fresh, streamlined design includes rugged, diecast zinc body, satin nickel finish, high-impact resistant thermosetting plastic socket insert, molded latchlock, dual pressure plates, keyed neoprene relief bushing. Features "Ground Terminal" and "Ground Contactors" offers 4 and 5-contact versatility. Mates with Switchcraft A(*)M and other connectors with similar contact arrangements. Takes $\frac{1}{16}$ " O.D. cable. Overall length $3\frac{1}{8}$ " dia. $\frac{3}{4}$ ".

Part No.	Insert Contacts	U.S.A. List Price
A3F	3	\$2.30
A4F	4	2.85

A(*)M CORD PLUGS



Has "Captive Design" insert screw, one-piece pin insert assembly easily removable for fast soldering. Polarizing groove. Die-cast zinc shell, satin nickel finish. Mates with Switchcraft A(*)F and other connectors with similar contact arrangements. Brass, silver plated chromate dipped pins to resist tarnishing. Overall length $2\frac{3}{8}$ " dia. $\frac{3}{4}$ ".

Part No.	Insert Pins	U.S.A. List Price
A3M	3	\$2.00
A4M	4	2.10

B(*)M RECEPTACLES



For panel or chassis mounting; locknut accommodates panels up to $\frac{1}{4}$ " thick. Single hole mounting, can be keyed by using "D" shaped panel hole or S-3519 mounting adapter. Pin insert features "Captive Design" insert screw and "Ground Terminal." Mates with Switchcraft A(*)F and other connectors with similar contact arrangements. Diecast zinc shell, satin nickel finish. Dimensions: Flange $1\frac{1}{16}$ " dia.; Barrel $\frac{13}{16}$ " overall; pin extensions $\frac{9}{32}$ ".

Part No.	Insert Pins	U.S.A. List Price
B3M	3	\$2.90
B4M	4	3.00

C(*)M RECEPTACLES



Mounts on wall, panel or chassis with three .136" dia. mounting holes. High impact thermosetting plastic pin insert. "Captive Design" insert screw, "Ground Terminal." Pins, brass, silver plated, chromate dipped; resists tarnishing. Mates with Switchcraft A(*)F and other connectors with similar contact arrangements. Dimensions: Flange $1\frac{1}{16}$ " dia.; Barrel $\frac{13}{16}$ " overall; pin extensions $\frac{9}{32}$ ".

Part No.	Insert Pins	U.S.A. List Price
C3M	3	\$1.40
C4M	4	1.50

C(*)F RECEPTACLES



For panel or chassis mounting; has socket insert, push-type latch locking device. Flange has three .136" holes for mounting screws. Mates with Switchcraft A(*)M and other connectors with similar contact arrangements. Dimensions: Flange $1\frac{1}{16}$ " dia.; Barrel $1\frac{13}{16}$ " overall; pin extension $\frac{1}{4}$ ".

Part No.	Insert Pins	U.S.A. List Price
C3F	3	\$3.10
C4F	4	3.20

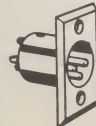
D(*)F RECEPTACLES



Rectangular flange design receptacle permits close mounting on crowded panel or chassis. Features "Captive Design" loss-proof insert screw, positive latch locking device and high impact thermosetting socket insert. Mates with Switchcraft A(*)M and other connectors with similar contact arrangements. Dimensions: Flange $1\frac{1}{16}$ " x $1\frac{1}{16}$ " x $1\frac{1}{16}$ " overall; pin extension $\frac{1}{4}$ ".

Part No.	Insert Contacts	U.S.A. List Price
D3F	3	\$3.20
D4F	4	3.30

D(*)M RECEPTACLES



Narrow, rectangular flange design receptacle for mounting on compact panel or chassis. Mates with Switchcraft A(*)F and other connectors with similar contact arrangements. Dimensions: Flange $\frac{7}{8}$ " x $1\frac{1}{16}$ " overall; pin extension $\frac{9}{32}$ ".

Part No.	Insert Pins	U.S.A. List Price
D3M	3	\$1.90
D4M	4	2.00



G(*)M TYPE WALL PLATES

Single gang wall plates with a B(*)M male receptacle. Fits standard electrical outlet box. Wall plates available in brushed brass or brushed stainless steel. Dimensions: Wall Plate $4\frac{1}{2}$ "H x $2\frac{3}{4}$ "W.

Part No.	Finish	Insert Pins	U.S.A. List Price
G3M	Brass	3	\$5.00
G4M	Brass	4	4.75
G3MS	Stainless Steel	3	5.00
G4MS	Stainless Steel	4	5.25



H(*)M TYPE WALL PLATES

Two gang wall plates with two B(*)M male receptacles. Mounts in standard electrical switch box (single). Wall plates available in brushed brass or brushed stainless steel. Dimensions: Wall Plate $4\frac{1}{2}$ "H x $2\frac{3}{4}$ "W. Six contacts.

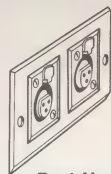
Part No.	Finish	Insert Pins	U.S.A. List Price
H3M	Brass	3 ea.	\$6.50
H4M	Brass	4 ea.	7.00
H3MS	Stainless Steel	3 ea.	7.00
H4MS	Stainless Steel	4 ea.	7.50



J(*)F TYPE WALL PLATES

Single gang wall plates with a D(*)F female receptacle. Fits standard electrical outlet box. Wall plates available in brushed brass or brushed stainless steel. Dimensions: $4\frac{1}{2}$ "H x $2\frac{3}{4}$ "W.

Part No.	Finish	Insert Contacts	U.S.A. List Price
J3F	Brass	3	\$4.70
J3FS	Stainless Steel	3	5.20
J4F	Brass	4	4.95
J4FS	Stainless Steel	4	5.45



K(*)F TYPE WALL PLATES

Two gang wall plates with two D(*)F female receptacles. Mounts in standard electrical outlet junction box. Wall plates available in brushed brass or stainless steel. Dimensions: $4\frac{1}{2}$ "H x $2\frac{3}{4}$ "W.

Part No.	Finish	Insert Contacts	U.S.A. List Price
K3F	Brass	3 ea.	\$6.90
K3FS	Stainless Steel	4 ea.	7.40
K4F	Brass	3 ea.	7.40
K4FS	Stainless Steel	4 ea.	7.90



MOUNTING ADAPTER

For use with B3M panel and chassis receptacle. Eliminates necessity of providing a flattened "D" shaped hole in panel to prevent turning of receptacle.

Switchcraft Part No. S-3519..... U.S.A. List Price \$0.40

"SLIM-LINE" CONNECTORS



New, small 4-contact connectors for audio and communication equipment. Barrel insert assembly of high-impact, thermo-plastic. No. 2504M, Fig. A, 4-pin male plug with coupling ring. "D-Shaped" barrel assembly polarized for proper mating. Large, husky cable clamp. No. 2504FP, Fig. B, 4-contact female receptacle, only $\frac{9}{16}$ " dia., $\frac{3}{4}$ " depth behind panel. For front panel mount. No. 2504FR, same as 2504FP, except rear panel mount. All "Slim-Line" connectors bright nickel plated.

A, 4-pin male plug with coupling ring. "D-Shaped" barrel assembly polarized for proper mating. Large, husky cable clamp. No. 2504FP, Fig. B, 4-contact female receptacle, only $\frac{9}{16}$ " dia., $\frac{3}{4}$ " depth behind panel. For front panel mount. No. 2504FR, same as 2504FP, except rear panel mount. All "Slim-Line" connectors bright nickel plated.

Switchcraft Part No. 2504M..... U.S.A. List Price \$2.50

Switchcraft Part No. 2504FP..... U.S.A. List Price \$2.50

Switchcraft Part No. 2504FR..... U.S.A. List Price \$2.50

AC RECEPTACLES



Highly dependable 3-pin receptacles for use in all electrical/electronic equipment.

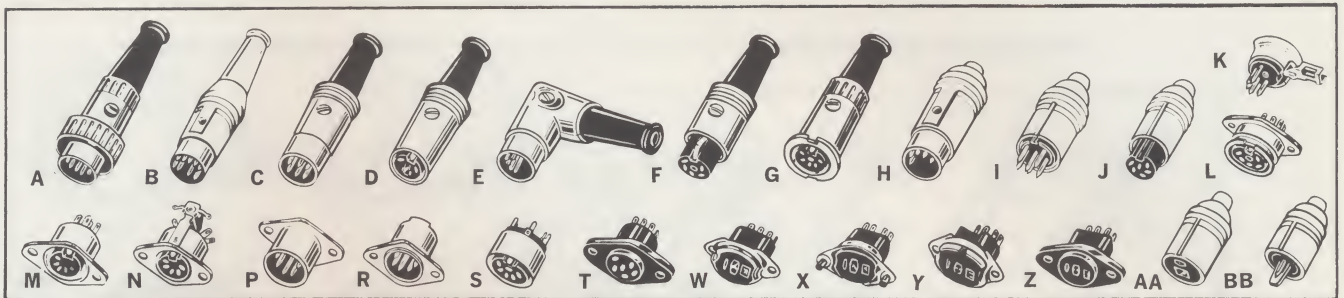
"Chassis hugging" recessed type mounting. Brass contact pins are silver plated, chromate dipped. No. AC3, ungrounded; No. AC3G, grounded, includes self-aligning feature. Pins #1 and #3 move, #2 is stationary. Receptacles mate with Belden cord No. 17258. Rating: 115V, 7 amps.

No. AC3G, grounded, includes self-aligning feature. Pins #1 and #3 move, #2 is stationary. Receptacles mate with Belden cord No. 17258. Rating: 115V, 7 amps.

Switchcraft Part No. AC3..... U.S.A. List Price \$0.80

Switchcraft Part No. AC3G..... U.S.A. List Price .75

FOR DETAILED SPECIFICATIONS ON THE ABOVE SWITCHCRAFT PRODUCTS CIRCLE CATALOG NOS. C-502a, 142, 146, 147, E-526 ON THE ATTACHED POSTAL CARD.



Here is the most complete low-cost family of miniature audio connectors available today. Exact replacements for plugs and receptacles used on most foreign built tape recorders, radios and dictation equipment. Switchcraft/Preh 2 to 7 contact connectors include male and female plugs and receptacles with bright nickel-plated shells and plastic snap-on shells. Check these outstanding features . . . lock-ring coupling, silver plated contact pins for low contact resistance, contact friction coupling for low mechanical interference noise, exclusive "automatic" grounding and polarization provisions. Thirteen receptacles offer some form of internal switching. Positioning "Ground Key-Rib" or "Ground Contact"—electrically integral with the connector shell—is provided in each plug and receptacle (except those with plastic housings or shells) to ground or shield the connector shell. Designed for low level circuitry, they have unlimited use in commercial, industrial, consumer and military applications.

PLUGS

STRAIGHT CORD PLUGS with 30° Lock Ring

Part No.	Fig.	Description	Pin or Contact arrangement	U.S.A. List Price
03CL2M	A	2 pins, ins. sw. actuator.	1	\$1.75
05CL3M	A	3 pins at 180°	2	1.75
05CL5M	A	5 pins at 180°	5	1.95
09CL4M	A	4 pins at 210°	3	1.85
12CL5M	A	5 pins at 240°	4	1.95

STRAIGHT CORD PLUG with Shielded Barrel

05GM3M	B	3 pins at 180°, Gray	2	1.10
05GM5M	B	5 pins at 180°, Gray	5	1.30
09GM4M	B	4 pins at 210°, Gray	3	1.20
12GM5M	B	5 pins at 240°, Gray	4	1.30
12HN5M	B	5 pins at 240°, Gray	4	1.30
15GM7M	B	7 pins at 270°, Gray	7	1.50

STRAIGHT CORD PLUG with Extended Barrel

03BL2M	C	2 pins, ins. sw. actuator	1	1.65
05BL3M	C	3 pins at 180°	2	1.65
05BL5M	C	5 pins at 180°	5	1.85
09BL4M	C	4 pins at 210°	3	1.75
12BL5M	C	5 pins at 240°	4	1.85
12BL6M	C	6 pins at 240°	6	1.95

STRAIGHT CORD PLUG with Flush Socket Insert

04AL2F	D	2 cont., cl. ckt. sw. Ckt. #4	A	1.65
06AL3F	D	3 contacts at 180°	B	1.65
06AL5F	D	5 contacts at 180°	F	1.85
10AL4F	D	4 contacts at 210°	D	1.75
13AL5F	D	5 contacts at 240°	E	1.85
13AL6F	D	6 contacts at 240°	G	1.95

RIGHT ANGLE CORD PLUG with 8 Position Barrel

03DL2M	E	2 pins, ins. sw. actuator	1	2.00
05DL3M	E	3 pins at 180°	2	2.00
05DL5M	E	5 pins at 180°	5	2.20
09DL4M	E	4 pins at 210°	3	2.10
12DL5M	E	5 pins at 240°	4	2.20

STRAIGHT CORD PLUG with Extended Socket

07FL3F	F	3 contacts at 180°	B	1.60
11FL4F	F	4 contacts at 210°	D	1.70
14FL5F	F	5 contacts at 240°	E	1.80

STRAIGHT CORD PLUG with Lock Flange

06EL3F	G	3 contacts at 180°	B	1.65
06EL5F	G	5 contacts at 180°	F	1.85
10EL4F	G	4 contacts at 210°	D	1.75
13EL5F	G	5 contacts at 210°	E	1.85

STRAIGHT CORD PLUG with Snap-Lock Plastic Shell

05LK3M	H	3 pins at 180°	2	.90
05LK5M	H	5 pins at 180°	5	1.10
09LK4M	H	4 pins at 210°	3	1.00
12LK5M	H	5 pins at 240°	4	1.10

STRAIGHT CORD PLUG with Short Plastic Shell

05QK3M	I	3 pins at 180°	2	\$.60
05QK5M	I	5 pins at 180°	5	.80
09QK4M	I	4 pins at 210°	3	.70
12QK5M	I	5 pins at 240°	4	.80
12QK6M	I	6 pins at 240°	6	.90

STRAIGHT CORD PLUG with Ext. Socket and Shell

07QK3F	J	3 contacts at 180°	B	.60
07QK5F	J	5 contacts at 180°	F	.80
08QK3F	J	3 cont.—180°, 2 blanks	C	.60
11QK4F	J	4 contacts at 210°	D	.70
14QK5F	J	5 contacts at 240°	E	.80
14QK6F	J	6 contacts at 240°	G	.90

RIGHT ANGLE CORD PLUG with Ins. Plastic Shell

05UK3M	K	3 pins at 180°	2	.60
05UK5M	K	5 pins at 180°	5	.80

RECEPTACLES

RECEPTACLE for Lockring Plugs

55HA2F	L	2 cont., clsd. ckt. sw. Ckt. #4	A	1.00
57HA3F	L	3 contacts at 180°	B	1.00
60HA4F	L	4 contacts at 210°	D	1.10
61HA4F	L	5 contacts at 240°	E	1.20

RECEPTACLE for Shielded and Extended Barrel Plugs

55GA2F	M	2 cont. plus clsd. ckt. sw. Ckt. #4	A	.70
57GA3F	M	3 contacts at 180°	B	.70
57GB5F	M	5 contacts at 180°	F	.90
57NC5F	N	5 cont.—180°, P.C. term.	F	.80
58NC3F	N	3 cont.—180°, 2 blanks. P.C. term.	C	.60
59GB3F	P	3 cont.—180°, clsd. ckt. sw. Ckt. #5	B	1.30
59GB5F	P	5 cont.—180°, clsd. ckt. sw. Ckt. #5	F	1.50

RECEPTACLE for Flush and Extended Socket Plugs

56KD2M	R	2 pins, ins. sw. actuator.	1	1.00
57KD3M	R	3 pins at 180°	2	1.00
57KD5M	R	5 pins at 180°	5	1.20
60KD4M	R	4 pins at 210°	3	1.10
61KD5M	R	5 pins at 240°	4	1.20

RECEPTACLE with Recessed Mounting for Extended Socket Plugs

57JD3M	S	3 pins at 180°	2	1.00
60JD4M	S	4 pins at 210°	3	1.10
61JD5M	S	5 pins at 240°	4	1.20

RECEPTACLE for Short and Right Angle Plastic Shell Plugs

57LA3F	T	3 contacts at 180°	C	\$.40
60LA4F	T	4 contacts at 210°	D	.50
61LA5F	T	5 contacts at 240°	E	.60
61LA6F	T	6 contacts at 240°	G	.70

CONTROL AND SWITCHING RECEPTACLES FOR 01QK2M PLUG

Each receptacle includes an elongated center contact for positive polarization. When inserting mating plug, contact is made to terminals 1 and 2. Receptacle's built-in closed-circuit switch is not actuated. Plug may then be turned 180°, without a polarity change, and re-inserted to open switch and make contact to terminal 2. Convertible feature available in Nos. 51DA2F, 52BA2F, 52CA2F and 52DA2F.

RECEPTACLE with Metal Mounting Flange

52DA2F	W	2 cont. clsd. ckt. sw. Ckt. #2. Conv't.	J	.65
53DA2F	W	2 contacts	K	.55
54DA2F	W	2 cont. clsd. ckt. sw. Ckt. #3. Not Conv't.	L	.60

RECEPTACLE with Metal Rivet Mounting Flange

52BA2F	X	2 cont. clsd. ckt. sw. Ckt. #2. Conv't.	J	.70
53BA2F	X	2 contacts	K	.60
54BA2F	X	2 cont. clsd. ckt. sw. Ckt. #3. Not Conv't.	L	.65

RECEPTACLE with 1-C Circuit

51DA2F	Y	2 cont. Make-break. Ckt. #2. Conv't.	M	.80
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RECEPTACLE with Insulated Plastic Body

52CA2F	Z	2 cont. clsd. ckt. sw. Ckt. #2. Conv't.	J	.60
53CA2F	Z	2 contacts	K	.50
54CA2F	Z	2 cont. clsd. ckt. sw. Ckt. #3. Not Conv't.	L	.55

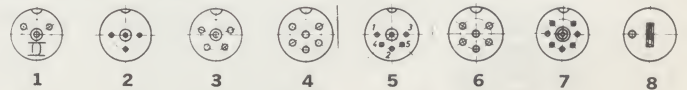
CONTROL AND SWITCHING PLUGS

PLUGS with Snap-On Plastic Shells

01QK2M	AA	Male plug. 2 cont.	8	.40
02QK2F	BB	Female plug. 2 cont.	K	.50

PIN

ARRANGEMENTS



SCHEMATIC CIRCUITS



CONTACT

ARRANGEMENTS

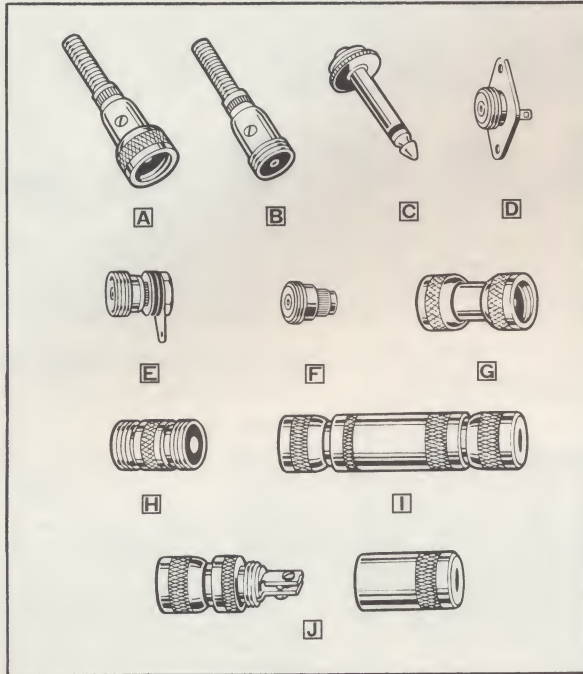


FOR DETAILED SPECIFICATIONS CIRCLE CATALOG C-503 ON ATTACHED POSTAL CARD.

Connectors

SWITCHCRAFT
INC.

MICROPHONE CONNECTORS



Standard connectors with $\frac{1}{8}$ "-27 threads. Designed for use with single conductor microphone cable with $\frac{1}{8}$ " max. O.D. **Coupling ring** on 2501F removable for fast change of female to male type. Spring assembled into body, cable braid and spring clamped by hollow set screw. No. 44 adapts 2501F to fit standard 2-cond. phone jack. No. 2501MP mounts in .385" dia. hole. *No. 2501MPC same as 2501MP except closed circuit type. No. 2501FT, coupler, two female connectors at each end. No. 2501MT, coupler, two male connectors at each end. Nos. 2501FL, 2501FS, for attaching cable to female connector without soldering; screw terminals. No. 2501MBL, insulated male panel receptacle. No. 2501MPF, male panel receptacle for PRESS-FIT mounting. **Cable clamp.

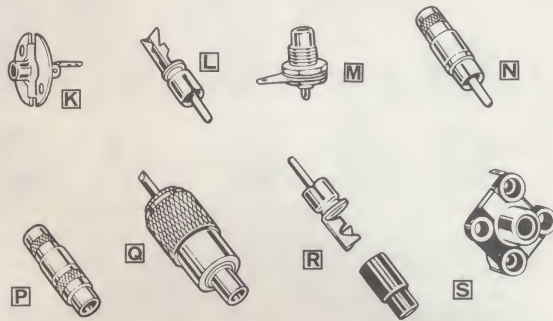
Part No.	Fig.	Description	U.S.A. List Price
2501F	A	Female Connector	\$.65
2501M	B	Male Connector	.50
44	C	Phone Plug Adapter	.55
2501MBL	D	Panel Receptacle	.60
2501MP	E	Panel Receptacle	.50
*2501MPC	F	Panel Receptacle	.60
2501MPF	F	Panel Receptacle	.50
2501FT	G	Double Female Connector	1.25
2501MT	H	Double Male Connector	1.25
**2501FL	I	Screw Term. Female Connector	2.50
2501FS	J	Screw Term. Female Connector	1.80

"MINI-CON" MINIATURE CONNECTORS

Popular "Mini-Con" microphone-type connectors used with miniaturized audio equipment, lapel microphones, musical instruments, etc. About $\frac{1}{2}$ the size of standard microphone connectors. Accepts single conductor shielded cables up to $\frac{1}{16}$ " O.D. Nickel plated brass bodies. Coupling ring on 5501F removable for quick change of female to male type. Cable-braid spring clamped to body by hollow point set screw. 5501MF mounts by lock-nut front side of panel, in $\frac{3}{16}$ " dia. hole. 5501MP mounts back side of panel in $\frac{1}{16}$ " dia. hole. 5501MPC same as 5501MP except shorting type.

Part Number	Fig.	Description	U.S.A. List Price
5501F	A	Female Cord Connector	\$0.65
5501M	B	Male Cord Connector	.50
5501MF	C	Panel Connector, Male	.50
5501MP	D	Panel Connector, Male	.40
5501MPC	D	Panel Connector, Male	.80

PHONO JACKS AND PLUGS



Low cost 2-cond. jacks and plugs for record players, FM-AM tuners, tape recorders, test equipment, etc. 3501MC has $\frac{3}{8}$ " O.D. shell and cable clamp. 3501FP for front panel mount in $\frac{1}{4}$ " hole, in panels up to $\frac{1}{8}$ " thick. 3501FR for rear panel mount in $\frac{3}{8}$ " hole, in panels up to $\frac{1}{8}$ " thick. 3502 has unique cable clamp with $\frac{1}{8}$ " O.D. shielded removable handle. 3503 ext. jack has shielded removable handle, $\frac{1}{8}$ " O.D. with cable clamp. 3508 Series, new color coded phono plugs with cable clamp and "snap-on" plastic handles in Red, Black, and White. Series 3511 "4-Leaf Clover" Jax. Molded phono Jack with dual contact surfaces for minimum shunt resistance, greater reliability. Open and closed circuit types. Mate with all Switchcraft phono plugs.

Part No.	Fig.	Description	U.S.A. List Price
3501F	K	Chassis jack	\$0.15
3501M	—	Plug, less cable clamp	.10
3501MC	L	Plug with cable clamp	.15
3501FP	M	Chassis jack	.35
3501FR	—	As above, chassis jack	.40
3502	N	Plug	.50
3503	P	Extension jack	.65
3508-1	R	Plug, Red handle	.25
3508-2	R	Plug, Black handle	.25
3508-5	R	Plug, White handle	.25
3511	S	Chassis jack, open circuit	.30
3511A	S	Chassis jack, open circuit, grounded	.30
3512	S	Chassis jack, closed circuit	.35
3512A	S	Chassis jack, closed circuit, grounded	.35

RF-JACKS and RF-PLUGS

Standard phono jacks and plugs with nylon insulation. For use in radio frequency applications—low cost, max. insulation resistance. No. 3504M, $\frac{3}{8}$ " O.D. No. 3505F mounts front of panel in $\frac{3}{8}$ " hole—fits panel up to $\frac{1}{16}$ " thick. No. 3506 adapter has coaxial connector (Amphenol 83-1SP) one end; 3505F at other end. No. 3507 has $\frac{1}{8}$ " O.D. shielded, screw-on handle with cable clamp.

Part No.	Fig.	Description	U.S.A. List Price
3504M	L	Plug	\$0.20
3505F	M	Chassis jack	.60
3506	O	Adapter	2.25
3507	N	Plug	.80

"SLIM-LINE" CONNECTORS



New, small 4-contact connectors for audio and communication equipment. Barrel insert assembly of high-impact, thermo-plastic. No. 2504M, Fig. A, 4-pin male plug with coupling ring. "D-Shaped" barrel assembly polarized for proper mating. Large, husky cable clamp. No. 2504FP, Fig. B, 4-contact female receptacle, only $\frac{9}{16}$ " dia., $\frac{3}{4}$ " depth behind panel. For front panel mount. No. 2504FR, same as 2504FP, except rear panel mount. All "Slim-Line" connectors bright nickel plated.

Switchcraft Part No. 2504M U.S.A. List Price \$2.50
Switchcraft Part No. 2504FP U.S.A. List Price \$2.50
Switchcraft Part No. 2504FR U.S.A. List Price \$2.50

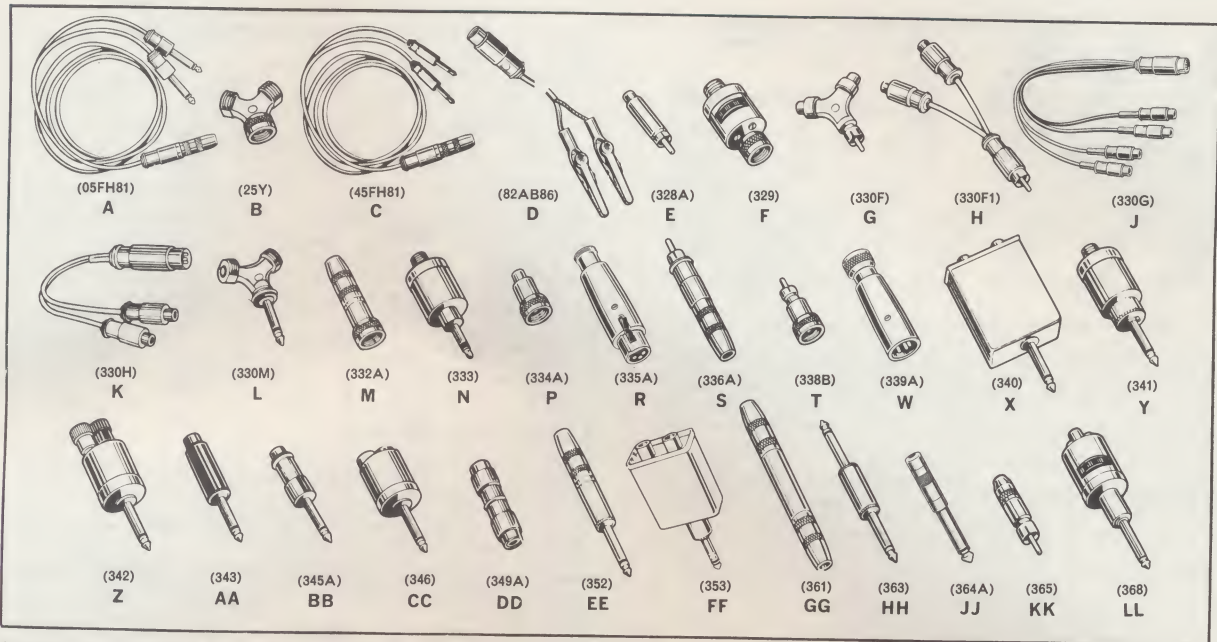


AC RECEPTACLES

Highly dependable 3-pin receptacles for use in all electrical/electronic equipment. "Chassis hugging" recessed type mounting. Brass contact pins are silver plated, chromate dipped. No. AC3, ungrounded; No. AC3G, grounded, includes self-aligning feature. Pins #1 and #3 move, #2 is stationary. Receptacles mate with Belden cord No. 17258. Rating: 115V, 7 amps.

Switchcraft Part No. AC3 U.S.A. List Price \$0.80
Switchcraft Part No. AC3G U.S.A. List Price .75

FOR DETAILED SPECIFICATIONS ON THE ABOVE SWITCHCRAFT PRODUCTS CIRCLE
CATALOG NOS. C-502a ON THE ATTACHED POSTAL CARD.



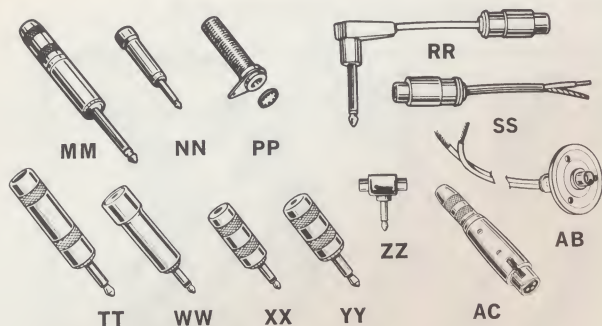
A versatile and complete line of adapters for interconnecting components that do not have mating jacks and/or plugs. For hi-fi stereo, phonographs, tuners, tape recorders, amplifiers, P.A. systems, etc. Positive mating contacts of high quality material prevent resistive line-losses. **Nickel plated finish for long life.** No. 328A, audio equalizer, converts ceramic phono cartridge to magnetic input. No. 329 Volume Control Adapter for use in high impedance circuits. No. 330G adapts European-type 5-contact sockets to standard Switchcraft phono plugs, color coded. Fits Norelco, Korting, Grundig, Sony, Elber tape recorders; Grundig radios. No. 330H, adapts 3-pin European type plug to standard Switchcraft phono plugs. No. 335A has unsoldered internal wire at one end to permit user to convert terminal needed. No. 341, silent plug adapter, includes a circuit closing device to eliminate amplifier "squeals" when disconnecting. No. 352, converts stereo headphones and/or microphones to a monaural input. No. 353 adapts stereo recorder for two headphones. Nos. 332A, 334A, 338B can be used as male or female connector; coupling ring screws back, converting to male mike connector.

Part No.	Fig.	Description	U.S.A. List Price	Part No.	Fig.	Description	U.S.A. List Price
05FH81	A	Stereo Headphone Adapter Cable. Two std. 2-cond. phone plugs wired to a 3-cond. phone jack. Shielded, 4 ft. stereo cable.	\$4.80	336A	S	2-cond. phone jack input to phono plug output. Shielded.	\$1.95
25Y	B	Y-Adapter, two male mike connectors in parallel to one female mike connector.	2.10	336B	—	Same as above, but 2-cond. phone jack input to phono jack output.	1.95
45FH81	C	Stereo Headphone Adapter Cable. Similar to 05FH81, except two 2-cond. "Tini-Plugs" wired to a 3-cond. std. 1/4" phone jack. Shielded.	4.30	338A	—	Phono plug input to male mike connector output. Shielded. Similar to 338B.	1.25
82AB86	D	Speaker Adapter Cable. Two alligator clips to a molded phono extension jack. 12" cable. Shielded.	1.20	338B	T	Phono plug input to female mike connector output. Shielded.	1.40
328A	E	Audio Equalizer. Phone jack input to phone plug output.	3.30	339A	W	Same as 335, but output connector Switchcraft 2501F to input connector Cannon XLR.	3.50
329	F	Volume Control, female mike connector to male mike connector.	6.95	340	X	Two 2-cond. phone jack inputs in parallel to a 2-cond. phone plug output. Shielded.	4.00
330F	G	Y-Adapter. Two phono jacks in parallel to a phono plug. Shielded.	1.95	341	Y	Silent-Plug Adapter. 2-cond. phone jack input to 2-cond. phone plug output.	3.30
330F1	H	Flexible Y-Adapter, phono plug in parallel to 2 phono jacks. Shielded 4" cable.	2.25	342	Z	Dual purpose binding post/banana jack input to 2-cond. phone plug output.	2.95
330F2	—	Same as above, but phono plug and phono jack to a phono plug.	2.25	343	AA	Phono jack input to phone plug output. Built-in limiting resistor for Webcor tape recorders.	1.95
330F3	—	Same as above, but 2 phono plugs to 1 phono plug.	2.25	345A	BB	Phone plug output to phono jack input.	1.45
330G	J	Stereo Adapter Cable. 5-pin European-type plug to four phono jacks. Shielded stereo cables, each 1 ft.	6.00	346	CC	Tip jack input to 2-cond. phone plug output.	2.50
330H	K	Flexible Y-Adapter. 3-pin European-type plug to 2 phono jacks. Shielded 5" cable.	3.75	349A	DD	Phono plug coupler, mates with phono plug at each end. Shielded.	1.25
330M	L	Y-Adapter, two male mike connectors in parallel to a 2-cond. phone plug.	2.25	352	EE	Stereo to monaural adapter. 3-cond. phone jack to 2-cond. phone plug output. Shielded.	2.25
330PJ	—	Y-Adapter, as above, except two phono jacks in parallel to a 2-cond. phone plug. Shielded.	2.25	353	FF	Stereo headphone adapter. 3-circuit plug wired to two 3-circuit jacks. Housed in shielded, metal case, tan finish.	4.75
332A	M	Phone jack input to female mike connector output.	1.95	361	GG	Coupler. 2-cond. phone jack at each end. Shielded.	2.50
333	N	Phone jack input to special 2-cond. plug for American Geloso recorders.	2.60	362	—	Same as above, but 3-cond. phone jack at each end.	3.00
334A	P	Phone jack input to female mike connector output. Shielded.	1.60	363	HH	Coupler, 2-cond. phone plug at each end. Shielded.	2.25
334B	—	Same as above, but phono jack input to male mike connector output. Shielded.	1.45	364A	JJ	2-cond. "Tini-Jax" 9/64" dia. sleeve, to 2-cond. 1/4" O.D. phone plug. Shielded.	1.75
335A	R	2-cond. input has Switchcraft 2501 MP to output connector Cannon XLR.	3.50	365	KK	2-cond. "Tini-Jax" (as above) input to phono jack output. Shielded.	1.75
				368	LL	Input volume control. Phono jack input to a 2-cond. phone plug output. Shielded.	4.95

FOR DETAILED SPECIFICATIONS CIRCLE CATALOG A-401b ON ATTACHED POSTAL CARD.

Adapters and Adapter Kits

SWITCHCRAFT
INC.



Versatile adapters for interconnecting components and cables that do not have mating jacks and/or plugs. Positive mating contacts prevent resistive line-losses. Nos. 369, 374, 375, 376, 377, have shielded, nickel plated brass handles. No. 378, "Tini-Tee", provides dual output jacks for two separate earphones. Allows two to listen at once from a single transistorized radio, tape recorder, etc.

Part No.	Fig.	Description	U.S.A. List Price
369	MM	2-cond. Revere/Wollensak phone jack input to a standard 2-cond. phone plug output. Shielded.	\$2.25
370	NN	Phono jack input to a 2-cond. "Tini-Plug" (9/64" dia. finger) output. Shielded.	1.40
371	PP	Thick panel adapter for 3501P phono jack. Permits mounting of jack in panels up to 1 1/4" thick.	1.25
372	RR	2-cond. molded right angle phone plug to a molded phono jack. 2" shielded cable.	1.95
373	SS	2-cond. molded phono jack to 3" shielded cable, stripped and tinned leads.	.90
374	TT	Phone jack input to a 2-cond. "Tini-Plug" (9/64" dia. finger) output.	1.95
375	WW	Phono jack input to a 2-cond. "Micro-Plug" (.097" dia. finger) output.	1.75
376	XX	"Tini-Jax" input to a 2-cond. "Micro-Plug" (.097" dia. finger) output.	1.75
377	YY	"Micro-Jax" input to a 2-cond. "Tini-Plug" (9/64" dia. finger) output.	1.75
378	ZZ	"Tini-Tee" Adapter. 2-cond. "Tini-Plug" input to two 2-cond. "Tini-Jax" outputs.	2.40
379	AB	Speaker enclosure phono jack. Molded flanged phono jack to stripped and tinned leads. 24" cable.	1.50
381	—	Adapter Cable. 11' 2-cond. shielded cable from 3-cond. right angle phone plug to "Y" junction. Two single cond. shielded 1' cables from "Y" junction to two 2-cond. phone plugs.	7.00
383	AC	3 Pin Switchcraft A3F female microphone input to 2-cond. extension phone jack output.	4.75

NEW

SPECIAL STEREO ADAPTER

Part No. 330B adapts Lear Jet Model HSA-900 tape recorder to RCA, or other stereo units with a three contact in-line socket assembly. Two single conductor color coded phono jack outputs to one 3 pin in-line input. Completely shielded. 4' long.

Switchcraft Part No. 330B.....U.S.A. List Price \$2.50

STEREO EXTENSION CABLES

Two shielded insulated cables (tandem) inside a common grey plastic jacket; provides 2 isolated channels. Molded phono plugs, jacks are color coded for easy channel identification. Ideal in all stereo applications such as tape recorders, record players, etc.

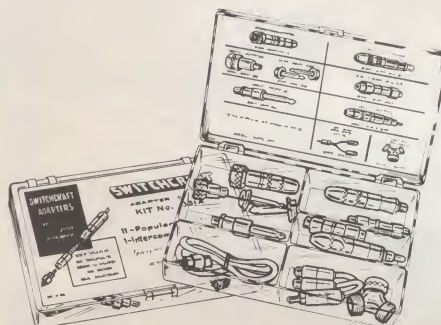
Part No.	Description	U.S.A. List Price
25FF82	2 straight molded phono plugs wired to 2 molded phono jacks. 3' grey stereo cable.	\$3.25
25FK82	Same as 25FF82 except 6' cable.	\$3.75
25FN82	Same as 25FF82 except 10' cable.	\$4.50

STEREO ADAPTER CABLE

Two standard, color coded, molded phono plugs wired to a 3-cond. molded extension phone jack. Ideal for adapting 3 circuit stereo phone plugs, as used on microphones and headsets, to 2 separate phono jack inputs. Completely shielded 4' grey stereo cable.

Switchcraft Part No. 25FH81.....U.S.A. List Price \$3.90

ADAPTER AND CONNECTOR KITS



ADAPTER KIT NO. 331A

"Universal-Application" Kit featuring 11 of the most frequently used audio adapters and one molded interconnecting cord in a handy reusable plastic box. Solves 90% of the problems of interconnecting two pieces of equipment that do not have mating connectors. Kit includes one each of Nos. 25AF25, 25Y, 330F1, 332A, 334A, 336B, 345A, and two each of 44 and 349A.

Switchcraft Part No. 331A.....U.S.A. List Price \$16.00



CONNECTOR ACCESSORY KIT NO. 359

New, larger adapter-connector Kit for microphone connector adaptations in addition to interconnecting equipment, such as: Hi-Fi and Stereo, Tape Recorders, Sound and P.A. Equipment and Test Equipment. Kit contains one each of Nos. 334A, 338B, 336A, 332A, 361, 25Y, 330F, 330M, 330PJ; two each of 349A, 44, and 345A... all in a heavy duty plastic box.

Switchcraft Part No. 359.....U.S.A. List Price \$25.00



CONNECTOR ACCESSORY KIT NO. 360

Contains all phono plugs and jacks, phone plugs and jacks and microphone connectors and receptacles needed for most applications. Also included is Switchcraft's "Silent Plug", No. 169, with the special circuit closing device that eliminates "squeals" in audio circuits when the plug is disconnected.

There's 40 pieces in all—4 No. 3501FP phono jacks; 4 No. 3501MC phono plugs; 3 No. 3502 phono plugs; 1 No. 3503 phono extension jack; 2 No. 2501FS microphone adapters; 2 No. 2501F microphone connectors; 4 "Mini-Con" connectors; 8 "Littel-Plugs"; 2 each of Nos. 240, 250, and 280; 3 phone plugs; 1 Silent Plug; 2 No. 11 "Littel-Jax"; and 4 "Flat-Plugs" Nos. 228, 220.

Switchcraft Part No. 360.....U.S.A. List Price \$32.50

FOR DETAILED SPECIFICATIONS ON THE ABOVE SWITCHCRAFT PRODUCTS CIRCLE
CATALOG NO. A-401b ON THE ATTACHED POSTAL CARD.

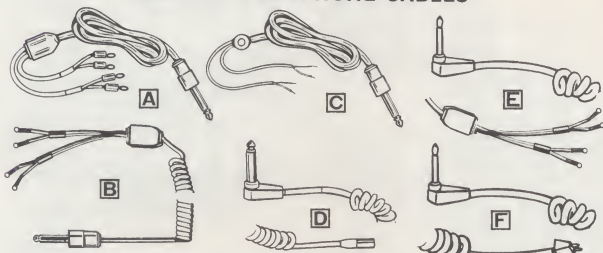
MOLDED COILED CORD ASSEMBLIES



Shielded, coiled cord assemblies with molded terminations and/or stripped and tinned ends. Various extended lengths from 4 ft. to 20 ft. extended lengths. Single conductor shielded cable with black neoprene jacket. Coiled cord flexes to maximum length and retracts positively each time it is used.

Part No.	Terminations		Extended Length	U.S.A. List Price
	End No. 1	End No. 2		
05LH84	A	C	4 ft.	\$ 3.60
15LH84	B	C	4 ft.	3.60
87LH84	D	C	4 ft.	3.70
05LP05	A	A	12 ft.	8.25
05LP15	A	B	12 ft.	8.25
05LP87	A	D	12 ft.	8.40
05LT05	A	A	20 ft.	11.50
05LT15	A	B	20 ft.	11.55
05LT87	A	D	20 ft.	11.70

MOLDED HEADPHONE CABLES



Replace worn-out headphone cords with new molded cords from Switchcraft. Part Nos. 05NJ88, 05NN88, 05KF88, 05KJ88, 13NJ88 and 13NN88 are direct replacements for cords used on Brush BA-200, BA-205, BA-206 headphones; RCA MI-38107B headphone. Standard Switchcraft straight or right angle 2-cond. phone plugs to color coded eyelet lugs. Part Nos. 13NN78 and 13NJ78 are direct replacements of cables used on Cleveite ED-300 and other headphones terminated with a Switchcraft "Micro-Plug". Part No. 50MJ74 ideal for earphones used on dictation and office equipment. Part No. 10FJ84 is a direct replacement for cords used on JENSEN HS-10, KNIGHT KN-840, SHARPE HA-8 and HA-10 Stereo Headphones.

Part No.	Fig.	Description	U.S.A. List Price
05KF88	A	Molded Headphone Cord. 2', 2-cond. cable from phone plug to "Y" junction. 1' cable from "Y" junction to eyelet plugs. Parallel wired.	\$3.30
05KJ88	A	Same as above, except 4 ft. cable from phone plug to "Y" junction.	3.50
05NJ88	B	Straight 2-cond. phone plug to eyelet lugs. 5' (extended) coiled cord.	4.10
05NN88	B	Same as above except 10' (extended).	5.10
10FJ84	C	Molded Stereo Headphone Cord. 4' cable from phone plug to "molded band". 1' cable from band to stripped, tinned leads.	3.25
13NJ78	D	Right angle 2-cond. phone plug to "Micro-Extension Jax". 5' (extended) coiled cord.	3.70
13NN78	D	As above, but 10' (extended).	4.75
13NJ88	E	Right angle 2-cond. phone plug to eyelet lugs. 5' (extended) coiled cord.	4.10
13NN88	E	As above, but 10' (extended).	5.10
50MJ74	F	Right angle "Tini-Plug" 2-cond. output, (9/64" dia. finger) to 2-cond. polarized ear receiver plug. Tinsel coiled cord extends to 5'.	3.60

PERSONAL EARPHONE KIT

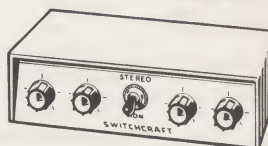
Ideal for use with transistor radio, tape recorder or any audio source with a "Tini-Jax" output. Consists of dynamic type, full fidelity (2000 ohm impedance) earphone with hygienic earpiece and flexible, tangle-free 5' (extended) coiled cord. Coiled cord has 2-cond. "Tini-Plug" at one end to a 2-cond. polarized ear receiver plug. Use with Switchcraft's new "Tini-Tee" adapter, Part No. 378, so two can listen privately from the same audio source.

Switchcraft Part No. 3843
U.S.A. List Price \$9.35



MICROPHONE MIXERS

STEREOPHONIC MIXERS



MODEL 306. Two channel stereophonic, high impedance microphone mixers. Extremely versatile, feeds up to two pairs of stereo signals such as microphones, tuners, phonos into two outputs to a recorder or amplifier. Individual gain control for each channel. With a flip of a lever switch, converts to 4 monophonic channels. Four standard 2-cond. phone jack inputs on rear panel; two phono jacks for output to amplifier or tape recorder. Size: 2"x3"x6".

Switchcraft Part No. 306.....U.S.A. List Price \$25.00

MODEL 306TR, same as above, but with two battery operated transistor amplifiers. Provides 6 db gain. Permits use of microphone with up to 30' of cable without loss. Low noise level, low distortion, frequency response: 20 to 20,000 c.p.s. On-Off switch lengthens battery life. Battery included. Tan finish, brown knobs with gold inserts. Rubber feet on base prevents scratching of finished surfaces.

Switchcraft Part No. 306TR.....U.S.A. List Price \$40.00

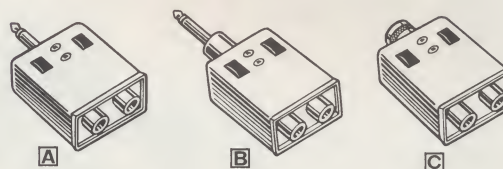
MONOPHONIC MIXERS

MODEL 301 (not illustrated). Similar to 306, except monaural only. Switchcraft Part No. 301.....U.S.A. List Price \$22.00

MODEL 301TR. Same as above, but with one battery powered transistor-amplifier. Battery included.

Switchcraft Part No. 301TR.....U.S.A. List Price \$32.50

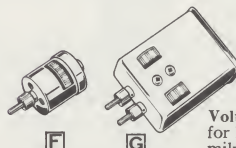
"MINI-MIX" AUDIO MIXERS



Miniature, high impedance microphone mixers. "Mini-Mix" accommodates two high impedance inputs with low loss factor. Feeds 2 signals into a single output. Each channel has separate gain controls to regulate audio input. Controls recessed in housing. Size 2 1/8" x 1 1/8" x 1 1/8".

Part No.	Fig.	Description	U.S.A. List Price
310	A	Two 2-cond. phone jack inputs to 2-cond. phone plug output.	\$8.95
311	B	As above, but has long plug output to fit recorders with recessed jacks.	9.95
312	B	Similar to above, except has special size plug and jacks for use with American Geloso recorders.	9.95
313	B	Similar to No. 311, except has short Revere plug and jacks for standard or short phone plugs.	9.95
315	C	Two 2-cond. phone jack inputs to a female mike connector.	8.95
316	—	(Not illustrated.) Two phono jack inputs to a phono plug output.	8.95
320	C	Similar to No. 315, except 2 male mike connector inputs to a female mike connector output.	8.95
326	B	Two 3-cond. phone jack inputs to long 2-cond. phone plug output. Internal resistor network for use with Webcor recorders.	10.95

STEREO LINE BALANCE CONTROLS



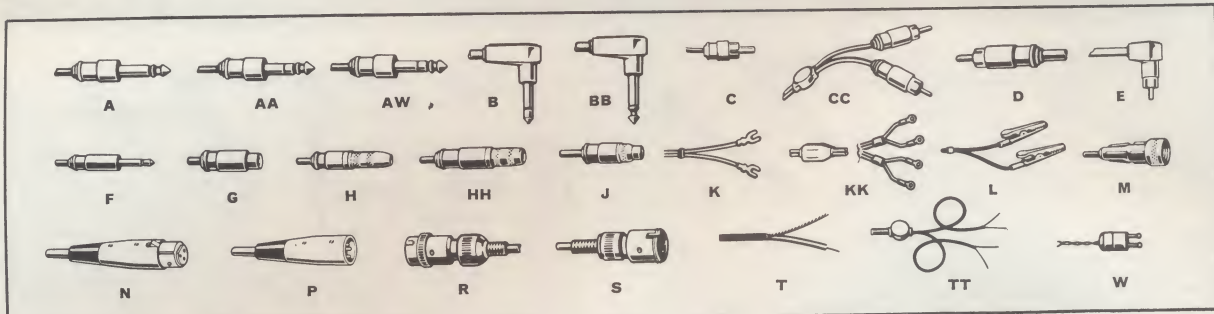
Volume Control Adapter, Fig. F. Single channel for high impedance circuits only, such as crystal mike, phono, etc. Ideal for use in balancing stereo channels; used in pairs for dual stereo channel control. Phono jack input to phono plug output. Shielded. Nickel plated.

Switchcraft Part No. 366.....U.S.A. List Price \$4.25

Dual Volume Control Adapter, Fig. G. Twin-channel for high impedance circuits. Same as above, but two phono jack inputs and two phono plug outputs with recessed volume controls for each channel. Shielded housing, tan finished. Size: 2 1/8" x 1 1/8" x 1 1/8".

Switchcraft Part No. 367.....U.S.A. List Price \$7.95

FOR DETAILED SPECIFICATIONS ON THE ABOVE SWITCHCRAFT PRODUCTS CIRCLE CATALOG NO. A-401b ON THE ATTACHED POSTAL CARD.



Only Switchcraft quality molded cable assemblies offer built-in cable clamps to support cable and eliminate strain—functionally designed handles to provide an easy grip. Cable is chrome grey (unless otherwise specified) with matching plastic handles. Fig. A-W Phone Plug with Resistor, 3-Conductor. Fig. M Microphone Connector—Female. Fig. N Switchcraft Q-G 3-Pin Audio Connector—Female. Fig. P Switchcraft Q-G 3-Pin Audio Connector—Male. Fig. R Amphenol 3-Pin Connector—Female. Fig. S Amphenol 3-Pin Connector—Male. Fig. W Ear-Receiver Plug.

Part Number	Terminations		U.S.A. Length	List Price
	End No. 1 Fig.	End No. 2 Fig.		
STRAIGHT 2-CONDUCTOR PHONE PLUG TO VARIOUS CONNECTIONS				
05AC05	A	A	18"	\$1.75
05AD05	A	A	24"	1.95
05AK05	A	A	6'	2.86
05AN05	A	A	10'	3.85
05AU05	A	A	25'	5.10
05AR05	A	A	15'	4.35
05AK15	A	BB	6'	2.85
05AN15	A	BB	10'	3.85
05AR15	A	BB	15'	4.35
05AK25	A	C	6'	2.20
05AN25	A	C	10'	3.00
05AR25	A	C	15'	3.30
05AK30	A	E	6'	2.20
05AN30	A	E	10'	3.00
05AK80	A	H	6'	2.85
05AN80	A	H	10'	3.85
05AR80	A	H	15'	4.40
05AU80	A	H	25'	5.10
05AK82	A	G	6'	2.40
05AN82	A	G	10'	3.30
05AR82	A	G	15'	3.60
05AK87	A	M	6'	2.85
05AN87	A	M	10'	3.85
05AR87	A	M	15'	4.35
05AU87	A	M	25'	5.10
05AK84	A	T	6'	1.95
05AN84	A	T	10'	2.50
05AR84	A	T	15'	3.00
05CK84*	A	T	6'	1.55
05CN84*	A	T	10'	2.10
05CK85*	A	K	6'	1.65
05CN85*	A	K	10'	2.20
05CK86*	A	L	6'	2.10
05CN86*	A	L	10'	2.65
05CR86*	A	L	15'	2.90
05CT86*	A	L	20'	3.30

STRAIGHT 3-CONDUCTOR PHONE PLUG TO VARIOUS CONNECTIONS				
10BD10	AA	AA	24"	\$3.60
10BF10	AA	AA	36"	4.00
10BK10	AA	AA	6'	5.30
10BN10	AA	AA	10'	6.60
10BU10	AA	AA	25'	9.65
10BK81	AA	H	6'	5.30
10BN81	AA	H	10'	6.60
10BU81	AA	H	25'	9.65

Stereo Cable Assembly for use with stereo tape recorders using 3-conductor dual microphone inputs—Norelco, Webcor, Revere, Wollensak.

10FK25	AA	CC	6'	\$4.40
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Webcor cable assemblies. 3-Cond. phone plug with internal resistor to various connections.

11AK26	AW	D	6'	\$3.60
11AN26	AW	D	10'	4.40
11CN86	AW	L	10'	3.60

2-Conductor Revere and Wollensak cables with R.A. Phone Plug to various connections.

12HK25	B	B	6'	\$2.75
12HB79	B	HH	12'	3.60
12HR79	B	HH	15'	5.50
12HU79	B	HH	25'	6.55
12HD80	B	H	24'	4.35

RIGHT ANGLE 2-CONDUCTOR PHONE PLUG TO VARIOUS CONNECTIONS

15AK15	BB	BB	6'	\$2.85
15AN15	BB	BB	10'	3.85

*Parallel unshielded cable.

†Hearing Aid Tinsel Cord. All other cables shielded.

Part Number	Terminations		U.S.A. Length	List Price
	End No. 1 Fig.	End No. 2 Fig.		
15AU15	BB	BB	25'	\$5.10
15AK25	BB	C	6'	2.20
15AN25	BB	C	10'	3.00
15AR25	BB	C	15'	3.30
15AK30	BB	E	6'	2.20
15AN30	BB	E	10'	3.00
15AK80	BB	H	6'	2.85
15AN80	BB	H	10'	3.85
15AU80	BB	H	25'	5.10
15AK82	BB	G	6'	2.40
15AN82	BB	G	10'	3.30
15AK87	BB	R	6'	2.85
15AN87	BB	R	10'	3.85
15AN84	BB	T	10'	2.50
15AR84	BB	T	15'	3.00
15CN84*	BB	T	10'	2.10
15CK85*	BB	K	6'	1.65
15CN85*	BB	K	10'	2.20
15CK86*	BB	L	6'	2.10
15CN86*	BB	L	10'	2.65

STRAIGHT PHONO PLUG TO VARIOUS CONNECTIONS				
25AC25	C	C	18"	\$1.15
25AF25	C	C	36"	1.30
25AH25	C	C	4'	1.50
25AK25	C	C	6'	1.65
25AN25	C	C	10'	2.20
25AR25	C	C	15'	2.75
25AT25	C	C	20'	3.30
25AU25	C	C	25'	3.85
25AC30	C	E	18"	1.15
25AF30	C	E	36"	1.30
25AK30	C	E	6'	1.65
25AN30	C	E	10'	2.20
25AU30	C	E	25'	3.85
25AK80	C	H	6'	2.20
25AN80	C	H	10'	3.00
25AR80	C	H	15'	3.60
25AC82	C	G	18"	1.30
25AF82	C	G	36"	1.50
25AH82	C	G	4'	1.75
25AK82	C	G	6'	1.95
25AN82	C	G	10'	2.20
25AR82	C	G	15'	2.75
25AT82	C	G	20'	3.30
25AU82	C	G	25'	3.85
25AC84	C	T	18"	.90
25AF84	C	T	36"	1.05
25AH84	C	T	4'	1.10
25AK84	C	T	6'	1.25
25AN84	C	T	10'	1.80
25AR84	C	T	15'	2.50
25AT84	C	T	20'	3.00
25AU84	C	T	25'	3.60
25CF84*	C	T	36"	.85
25CK84*	C	T	6'	1.00
25CN84*	C	T	10'	1.55
25CK85*	C	K	6'	1.10
25CN85*	C	K	10'	1.65
25CK86*	C	L	6'	1.95
25CN86*	C	L	10'	2.50
25CR86*	C	L	15'	2.60
25CT86*	C	L	25'	2.85
25AK87	C	M	6'	2.70
25AN87	C	M	10'	3.70
25AU87	C	M	25'	5.00

Special Stereo Cables. Two shielded insulated cables inside a common grey plastic jacket. Provides two isolated channels for all stereo applications. Phono plugs color coded.

25FF25	CC	CC	36"	\$3.60
25FK25	CC	CC	6'	4.15
25FN25	CC	CC	10'	4.95
25FF84	CC	TT	36"	3.20
25FK84	CC	TT	6'	3.60
25FN84	CC	TT	10'	4.15

STRAIGHT PHONO PLUG (LONG HANDLE) TO VARIOUS CONNECTIONS

26AF26	D	D	36"	\$1.45
26AK26	D	D	6'	1.75

Part Number	Terminations		U.S.A. Length	List Price
	End No. 1 Fig.	End No. 2 Fig.		
26AN26	D	D	10'	\$2.30
26AR26	D	D	15'	2.85
26AK05	D	A	6'	2.40
26AN05	D	A	10'	3.00
26AF82	D	G	36"	1.65
26AK82	D	G	6'	2.15
26AN82	D	G	10'	2.50
26AR82	D	G	15'	3.00
26AF84	D	T	36"	1.20
26AK84	D	T	6'	1.45
26AN84	D	T	10'	2.00

RIGHT ANGLE PHONO PLUG TO VARIOUS CONNECTIONS

30AC30	E	E	18"	\$1.15
30AF30	E	E	36"	1.30
30AH30	E	E	4'	1.50
30AK30	E	E	6'	1.65
30AN30	E	E	10'	2.20
30AR30	E	E	15'	2.75
30AT30	E	E	20'	3.30
30AU30	E	E	25'	3.85
30AK80	E	H	6'	2.20
30AN80	E	H	10'	3.00
30AC82	E	G	18"	1.40
30AF82	E	G	36"	1.50
30AK82	E	G	6'	1.95
30AN82	E	G	10'	2.20
30AR82	E	G	15'	2.75
30AT82	E	G	20'	3.30
30AU82	E	G	25'	3.85
30AF84	E	T	36"	1.05
30AK84	E	T	6'	1.25
30AN84	E	T	10'	1.80
30CF84*	E	T	36"	.85
30CK84*	E	T	6'	1.00
30CN85*	E	K	10'	1.65
30CK86*	E	L	6'	1.95
30CN86*	E	L	10'	2.50

STRAIGHT TINI-PLUG TO VARIOUS CON.

40DK05	F	A	6'	\$3.00
40DF25	F	C	36"	2.30
40DK25	F	C	6'	2.75
40DK40	F	F	6'	2.10
40DK80	F	H	6'	3.00
40DK82	F	G	6'	2.75
40DK83	F	J	6'	3.00
40DN83	F	J	10'	3.60
40DF84	F	T	36"	1.95
40DK84	F	T	6'	2.20
40DN84	F	T	10'	2.75
40DN86	F	W	10'	2.75
41EF75†	F	W	36"	2.20
41EH75†	F	W	4'	2.50
45AN25	F	C	10'	3.00
45AR25	F	C	15'	3.60
45AU25	F	C	25'	4.70

EXTENSION JACK CORDS

82AC82	G	G	18"	\$1.65
82AF82	G	G	36"	1.80
82AK82	G	G	6'	2.15
83DK05	J	A	6'	3.00

CORDS w/ SPADE LUGS, ALLIGATOR CLOPS

85CN85*	K	K	10'	\$1.00
85CT85*	K	K	20'	1.65
85CU85*	K	K	25'	2.00
86CN86*	L	L	10'	1.95
86CU86*	L	L	25'	2.80

MICROPHONE CONNECTOR TO VARIOUS CONNECTIONS

87AF84	M	T	36"	\$1.65
87AK84	M	T	6'	2.00
87AN84	M	T	10'	2.50
87AU84	M	T	25'	4.70
87AF87	M	M	36"	2.20
87AK87	M	M	6'	2.75
87AP87	M	M	12'	3.85
87AU87	M	M	25'	5.50
91BU92	N	P	25'	13.75
93BU94	R	S	25'	10.75

HI-FI, STEREO SWITCHES AND CONTROLS



A B C D E

Quality Switchcraft Hi-Fi and Stereo volume controls and selector switches are completely wired and ready for use. Attractive tan finished metal housing. 2"x2"x1". Each unit is complete with mounting hardware and instruction sheet.

Stereo-Monaural Selector. Fig. A. Fast switching from monaural to stereo. Two phono jack inputs and two phono jack outputs.

Switchcraft Part No. 661. U.S.A. List Price **\$3.50**

Stereo-Monaural Selector with Reverse. Fig. B. Same as above, but provides channel reversing.

Switchcraft Part No. 662. U.S.A. List Price **\$4.50**

Phono-Tuner Adapter. Fig. A. Modernizes old sound equipment. Provides amplifier with two inputs for phono and tuner, etc. Switch selects either input. Phono jack output for amplifier; two phono jack inputs for phono and tuner.

Switchcraft Part No. 663. U.S.A. List Price **\$2.95**

Multiple Selector Control. Fig. B. Accepts up to 5 input circuits. Switch selects any one of the five inputs labeled AM, FM, Phono, Tape, AUX to amplifier output. Five phono jack inputs to one phono jack output.

Switchcraft Part No. 664. U.S.A. List Price **\$5.95**

Speaker Phase Control. Fig. A. Provides proper phasing in stereo and other speaker installations. Slide switch alters phasing. Screw terminals.

Switchcraft Part No. 665. U.S.A. List Price **\$2.95**

Speaker Volume Control with L-Pad. Fig. C. For volume control of remote or extra speakers. 5 watts peak, 8 ohm, screw terminals.

Switchcraft Part No. 666. U.S.A. List Price **\$6.95**

Speaker Selector Switch. Fig. D. Connects remote or extra speakers to radio, T.V. or Hi-Fi set. Three position switch selects either one or both speakers at same time. Screw terminals. Shielded housing.

Switchcraft Part No. 667. U.S.A. List Price **\$4.95**

Stereo Selector Switch. Fig. B. Switch permits selection of both channels of any one of three stereo sources such as FM tuner, tape recorder and record player to one pair of outputs such as a stereo amplifier. Three pairs of phono jack inputs to one pair of phono jack outputs.

Switchcraft Part No. 668. U.S.A. List Price **\$6.95**

Stereo Volume Control. Fig. C. Specially matched tandem control for high impedance circuits. Use as a master gain control for ceramic type stereo cartridges, stereo tape decks, etc., when connected to separate amplifiers. One pair of phono jack inputs to one pair of phono jack outputs.

Switchcraft Part No. 669. U.S.A. List Price **\$6.95**

Stereo Speaker Selector Switch. Fig. E. Designed to connect two remote pairs of stereo speakers to a stereo amplifier. Three position switch selects either pair of stereo speakers or both pairs at the same time. Screw terminals.

Switchcraft Part No. 670. U.S.A. List Price **\$6.95**

Monaural Speaker Selector Switch. Fig. B. Five position tap switch selects any one of five monaural speakers. Inputs labeled 1 through 5. Five phono jack inputs to one phono jack output for amplifier.

Switchcraft Part No. 671. U.S.A. List Price **\$6.25**



LISTENING STATIONS

PRIVATE LISTENING STATION—Fig. F. Designed for individual listening when wired to TV or radio. For 600 ohm headphones or higher impedance. Consists of 10,000 ohm volume control and 2-cond. phone jack for headphone. Features special built-in resistor to prevent any possible damage to control. Two alternate input terminations: standard phono jack on one side and screw-type term. on other side. Completely enclosed in an attractive tan finish metal housing, 2" x 2" x 1". Shielded. Four mtg. screws included.

Switchcraft Part No. 672. U.S.A. List Price **\$5.00**

AUDIO JUNCTION BOX—Fig. G. A small compact junction box that provides four auxiliary outputs for multiple headphone use. Consists of four 2-cond. phone jacks wired in parallel and two side panel grommets for multiple wiring. Sturdy metal cabinet finished in tan lacquer, 2" x 2" x 1". Shielded. Complete with four mtg. screws.

Switchcraft Part No. 676. U.S.A. List Price **\$4.25**

AUDIO JUNCTION BOX. Same as Part 676, but with two phono jacks for easy "plug-in" of additional junction boxes. For multiple hook-ups, use Switchcraft molded cable assemblies.

Switchcraft Part No. 677. U.S.A. List Price **\$5.00**

DELUXE PRIVATE LISTENING STATION—Fig. H. Designed for use as a headphone monitor control with public address systems and tape recorders. Consists of a 10,000 ohm volume control to allow for full adjustment of headphone audio level and two phono jacks for feeding in and out for multiple hook-ups. A 2-cond. phone jack is mtd. on top of the cabinet. Completely enclosed tan lacquer finished metal housing, 2" x 2" x 1". Shielded. Four mtg. screws furnished.

Switchcraft Part No. 678. U.S.A. List Price **\$5.00**

DELUXE PRIVATE LISTENING STATION—Fig. I. Similar to Model 678 except features a 2-cond. phone jack and a 6-ft. shielded cable with molded 2-cond. straight phone plug in place of the phone jacks

Switchcraft Part No. 679. U.S.A. List Price **\$6.50**



STEREO SPEAKER SELECTOR SWITCH

7-position stereo speaker selector switch mtd. on wall plate. Selects any one, two or three pairs of stereo speakers, or any combination of three. Ivory and black dial; brushed brass wall plate. Screw terminals. Size: 4½" x 2¾" x 1½".

Switchcraft Part No. 657. U.S.A. List Price **\$9.95**

Same as above, except brushed stainless steel wall plate.

Switchcraft Part No. 657-S. U.S.A. List Price **\$9.95**



SPEAKER VOLUME CONTROLS

Designed for custom installations. Constant impedance "T"-pad controls speaker volume. Rated at 10 watts (20 watts, peak). Mounts in standard electrical outlet boxes, mounting center 3½", 8 ohms. Brushed brass wall plate; ivory and black dial. Screw terminals; mounting screws and instructions. Plate size: 2¾" x 4½" x 1½".

Switchcraft Part No. 651. U.S.A. List Price **\$10.95**

Same as above, except brushed stainless steel wall plate.

Switchcraft Part No. 651-S. U.S.A. List Price **\$10.95**

Constant impedance "T"-pad speaker volume control switch. All features of No. 651, but 16 ohms. Use with single 16 ohm speaker or two 8 ohm speakers in series. Brushed brass wall plate.

Switchcraft Part No. 652. U.S.A. List Price **\$10.95**

Same as No. 652, except brushed stainless steel wall plate.

Switchcraft Part No. 652-S. U.S.A. List Price **\$10.95**

SPEAKER VOLUME CONTROLS WITH JACK CONNECTION



Mounts in standard electrical wall outlet box. Constant impedance "T"-pad controls volume of speakers. Phone jack mounted on wall plate permits use of external speaker or headphones; accepts standard 2-cord phone plug. Rated at 4 watts. Brushed brass wall plate; ivory and black dial. 8 ohms. Wall plate size: 4½" x 2¾" x 1½".

Switchcraft Part No. 653. U.S.A. List Price **\$12.95**

Same as above, but 16 ohm impedance.

Switchcraft Part No. 654. U.S.A. List Price **\$12.95**



MULTI-SPEAKER SELECTOR SWITCH

7-position switch mounted on wall plate; fits standard outlet box. Selects any combination of three speakers. Ivory and black dial; brushed brass plate. Screw terminals. Maintains constant impedance regardless of switch position. Size: 4½" x 2¾" x 1½".

Switchcraft Part No. 655. U.S.A. List Price **\$5.95**

Same as above, except brushed stainless steel wall plate.

Switchcraft Part No. 655-S. U.S.A. List Price **\$5.95**



SPEAKER VOLUME CONTROL WITH QUALITY L-PAD

Specially designed "L"-pad volume control to prevent mismatch to amplifier at different volume settings. Brushed brass wall plate, ivory and black dial. Fits standard electrical outlet boxes. Solder lug terminals. Rated at 10 watts of peak audio power. 8 ohms. Size: 4½" x 2¾" x 1½".

Switchcraft Part No. 656. U.S.A. List Price **\$7.50**

Same as above, except brushed stainless steel wall plate.

Switchcraft Part No. 656-S. U.S.A. List Price **\$7.50**



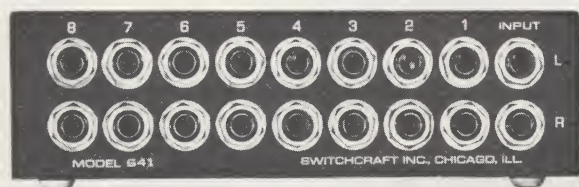
SOUND CONTROL CENTERS

Control up to 8 complete stereo speaker systems or 8 pairs of monophonic speakers. Provides full stereo sound in every room throughout the home with simple pushbutton operation.

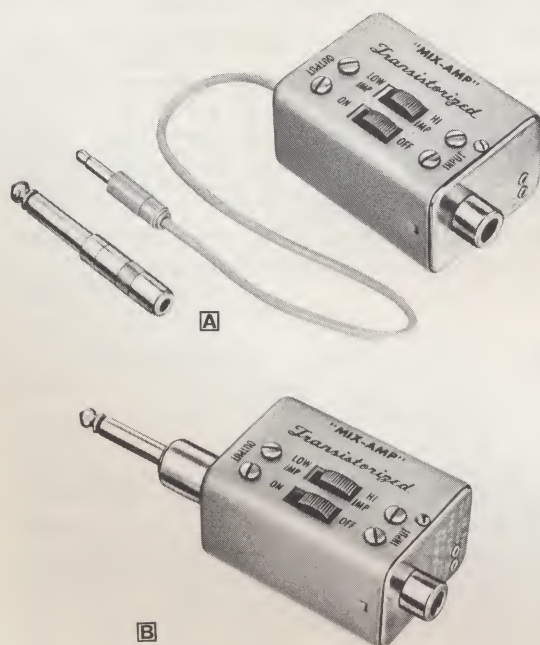
Metal housing of Sound Control Center attractively finished in black wrinkle, with brushed aluminum escutcheon plate. Control buttons have recessed white face with black numbers for easy identification. Rubber "feet" on housing base eliminate scratches and mars on hi-fi cabinets, book shelves, etc.

8 pairs of standard 2-cond. phono jack outputs and one pair of standard phono jack inputs provide easy rear panel plug-in connections from amplifier and speakers. Frequency response D.C. to 30 KHz with negligible switching loss. Power handling capacity is 100 watts max. into a 4 ohm load. No external power is required for operation. **Part No. 641** allows only one speaker system at a time to be on. **Part No. 642** allows any number of speaker systems (up to eight) to play simultaneously. **Part No. 643**, attractive escutcheon plate for flush mounting Nos. 641 and 642. Template and four mounting screws supplied. Size: Models 641 and 642—2¼" x 6¾" x 7", Model 643—7½" x 2½".

Part No. 641.....\$49.50 Suggested User Net
Part No. 642.....\$49.50 Suggested User Net
Part No. 643.....\$ 3.50 Suggested User Net



Rear view showing easy plug-in connections



"MIX-AMP" MINIATURE TRANSISTORIZED AMPLIFIERS

Substitute gain for loss with "MIX-AMP" battery powered transistor amplifiers. **Part No. 501** for use in high impedance microphone circuits. Provides 3 db gain and accepts signals up to 2 V when used with Switchcrafts "Mini-Mix." "On-Off" and "Hi-Lo" impedance switches. Frequency response 20 to 20 KHz. 9 volt battery included. **Part Nos. 503 and 504** specially designed for use with miniature tape recorders. No. 503 plugs-in directly to most foreign built, and other miniature tape recorders, without adapters. Both provide a high signal to noise ratio; up to 25 db gain at "LO" impedance. Zero hum and noise—20-20 KHz. Single 1.5V penlite cell powers 503 and 504. "ON-OFF" and impedance matching "LO-HI" switches. Battery and instructions included.

Part No.	Fig.	Description	U S.A. List Price
501	—	2-cond. phone jack input to extra long 2-cond. phone plug output to fit recorders with recessed jacks.	\$20.00
503	A	2-cond. phone jack input to a 12" cable with 2-cond. "Tini-Plug" to fit most miniature tape recorders. Includes No. 364A adapter to convert "Tini-Plug" to standard 2-cond. phone plug.	\$16.50
504	B	Same as 503, but 2-cond. phone jack to a 2-cond. long shoulder phone plug.	\$14.50

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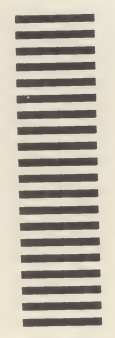
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147	156	168	E-531	S-302a	S-323
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